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DATE:	August 13, 2004	TIME:		
FROM:	David C. Jenkins	DIRECT DIAL:	412/566-1253	

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MESSAGE:

RE: Applicant: William George Alton

U.S. Patent Application Serial No. 10/008,820 entitled: Bandsaw Blade With Cutting Extensions

43

(Our Ref. 287108-00001)

Attached is a copy of Appellant's Brief on Appeal as filed on April 9, 2004 for the above-captioned application.

David C. Jenkins/jlj

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U.S. Patent Application Serial No. 10/008,820, filed 11/13/2001 entitled "Bandsaw Blade With Cutting Extensions" (Attorney Docket No. 287108-00001)

Attached is a copy of APPELLANT'S BRIEF ON APPEAL and date-stamped return postcard for the above application.

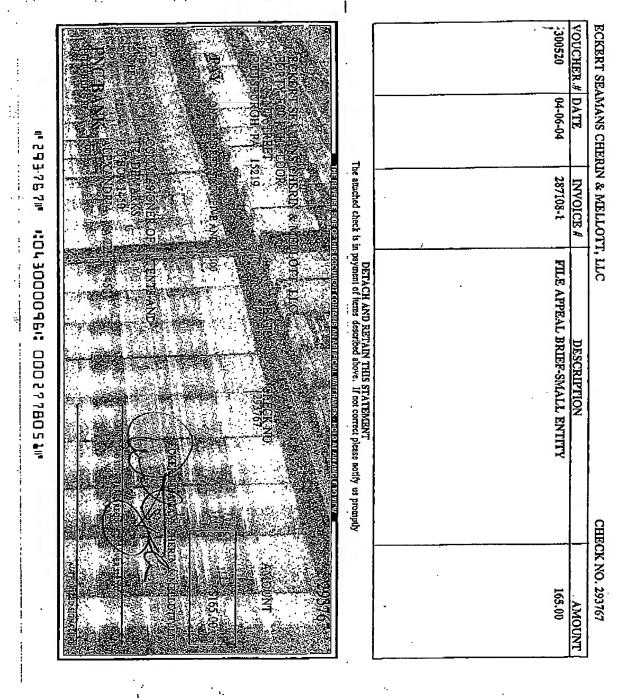
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Patent Examiner: Jason D. Prone

: BANDSAW BLADE WITH CUTTING

Group Art Unit: 3724 : EXTENSIONS

In re application of:

WILLIAM GEORGE ALTON

Serial No.: 10/008,820

Filed: November 13, 2001

: Attorney Docket No. 287108-00001

APPELLANT'S BRIEF ON APPEAL

April 9, 2004

Commissioner For Patents
MAIL STOP APPEAL BRIEF - PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This is an Appeal from the decision of the Examiner, dated November 11, 2003, rejecting Claims 1-4, 15-17, and 19 and objecting to Claims 5, 8, 9, 12 and 18 of the above-identified application. The claims are set forth in Appendix 1, which is attached hereto. Due to the specific nature of the issues involved in this Appeal, an Oral Hearing is not deemed necessary and is not requested.

Real Party In Interest

The real party in interest is the inventor, William George Alton.

Related Appeals and Interferences

There are no other appeals or interferences known to Appellant or to Appellant's legal representative which will directly affect, be directly affected by, or have a bearing on the Board's decision in the pending appeal. Appellant has, however, petitioned the Commissioner to withdraw the restriction requirement.

...)

Status of the Claims

Claims 1-4 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Tsujimoto (U.S. Patent No. D438,549).

Claim 15 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Tsujimoto in view of Kullman (U.S. Patent No. 5,477,763).

Claims 16, 17 and 19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard* (U.S. Patent No. 5,606,900).

Claims 5, 8, 9, 12 and 18 stand objected to as being dependent upon a rejected base claim.

Status of the Amendments

There are currently no amendments to the pending claims. The claims as they stand on Appeal are contained in the Appendix 1 to this Brief.

The Invention

The present invention provides a bandsaw blade having un-set teeth, each tooth having a cutting extension. The cutting extension extends beyond the height of the tooth body. An individual cutting extension has a width less than the width of the tooth body, but the total width of the cutting extensions in a group of teeth is the same as, or greater than, the width of the teeth. The cutting extensions are positioned on the teeth in a group so that outer edges of the one cutting extension are generally aligned with the outer edge of a cutting extension on another tooth or aligned with the outer edge of the tooth. Thus, the centerline of each cutting extensions is not aligned with another cutting extension in the group. As used herein, "aligned" means aligned as viewed along the longitudinal axis of the bandsaw blade.

Preferably, the cutting extensions within a group are each the same width, e.g., ? the width of the tooth. The cutting extensions within a group of teeth are positioned so that each tooth is located over a different portion of each tooth in the group. Thus, in a three-tooth group, each extension is ? the width of the tooth. One extension is located over the left most third of one tooth, a second extension is located

over the center third of another tooth, and a third extension is located over the right third of the remaining tooth. Generally, if there are "n" teeth in a group, each tooth has an extension that is 1/nth the width of the tooth.

Alternatively, a single tooth may have more than one extension so long as the total width of the sum of the widths of the extensions is generally equal to or greater than the width of the tooth body. For example, in a two-tooth group, the first tooth may have a centrally located extension that is $\frac{1}{2}$ the width of the tooth body. The second tooth in the group has two extensions, each being about $\frac{1}{2}$ the width of the tooth body, wherein each extension is located adjacent to the outer edges of the tooth. Thus, the total width of the extensions, $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$, is about the same as the width of the tooth and the extensions are not aligned with each other. As such, in either embodiment, the cutting load on each tooth is about the same.

Issues Presented

- 1. Whether the Appellant's invention as claimed in Claims 1-4 is anticipated by *Tsujimoto*.
- 2. Whether the Appellant's invention as claimed in Claim 15 is unpatentable over *Tsujimoto* in view of *Kullman*.
- 3. Whether the Appellant's invention as claimed in Claims 16, 17 and 19 is unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard*.

Grouping of Claims

Claims 1 and 15 each stand separately. Claims 2-4 stand or fall with Claim 1. Claims 16-19 stand or fall with Claim 15.

Argument

Claims 1-4, Rejected Under 35 U.S.C. § 102(e)

Claims 1-4 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Tsujimoto (U.S. Patent No. D438,549). Initially, the difference between set teeth and unset teeth must be understood. "Set" is defined as "to bend slightly the tooth points

. .

of (a saw) alternately in opposite directions." See, Merriam-Webster Online Dictionary at http://www.m-w.com/cgi-bin/dictionary?book=Dictionary&va=set&x=17&y=14 (attached as Appendix 2). Teeth are set to resist binding in the channel. That is, by virtue of the teeth being bent in different directions, the channel is wider than the teeth. Conversely, an unset tooth is not bent. Instead, unset teeth utilize different shapes, see, Kullman, U.S. Patent No. 5,477,763 (discussed below), so that each tooth in a group impacts a different portion of the cut channel.

Tsujimoto discloses a band saw blade having a plurality of set teeth. That is, as shown in Figure 2, the teeth are bent to one side, or the other, of the centerline.

Tsujimoto further discloses a blade having teeth that include a cutting surface extending from the back edge of the tooth as opposed to the front edge as is more typical. It is Appellant's belief that this is the structure the Examiner considers an "extension." The cutting edge extends across the entire width of the tooth.

As stated in MPEP §2131:

A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.... The identical invention must be shown in as complete detail as is contained in the ... claim.

Id. (citing Verdigaal Brothers v. Union Oil Company of California, 814 F.2d 628, 631 (Fed. Cir. 1987) and Richardson v. Suzuki Motor Company, 868 F.2d 1226, 1236, (Fed. Cir. 1989)). In the present application, it is noted that an "individual cutting extension has a width less than the width of the tooth body." Application at page 3, lines 24-25. Moreover, claim 1 recites "a plurality of unset teeth." Given that Tsujimoto discloses neither cutting extension having a width less than the width of the tooth body nor an unset tooth, it is respectfully submitted that upon reading the Tsujimoto disclosure, one skilled in the art would not consider a device having the elements of the claimed invention.

Independent claim 1 recites a saw blade having a plurality of unset teeth wherein at least some of the teeth have a cutting extension. As this reference does not disclose these elements, the rejection of claim 1 under 35 U.S.C. § 102(e) is in error.

Claim 2 which depends from claim 1, further recites that the sum of the widths

of the cutting extensions is about equal to the width of the teeth bodies. Given that a single "extension" on the teeth of the cited reference is equal to the width of the tooth body, the sum of the widths of the "extensions" would be greater than the width of the teeth. Accordingly, this reference does not disclose the elements recited in claim 2 and the rejection of claim 2 under 35 U.S.C. § 102(e) is in error.

Claims 3 and 4 depend from claim 2 and rely on their dependency for patenability.

Claim 15; Rejected Under 35 U.S.C. § 103(a)

Claim 15 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Tsujimoto in view of Kullman (U.S. Patent No. 5,477,763). Tsujimoto is discussed above. Kullmann et al. discloses a bandsaw having unset teeth wherein the teeth do not have a uniform height. That is, there are teeth having a greater height and a narrower width and teeth having a greater width and a lower height. There are teeth with various heights/widths between the two extremes. Every alternate tooth has the lowest height and the greatest width.

Because Tsujimoto discloses a blade having set teeth, one skilled in the art would not consider combining Tsujimoto with Kullman which utilizes unset teeth. That is, one skilled in the art would realize that there is no advantage to having teeth having various heights/widths which are also set to one side or the other. Morcover, as stated in, In re Geiger, 815 F.2d 686, 2 U.S.P.Q.2d 1276 (Fed. Cir. 1987), "obviousness cannot be established by combining teachings of the prior art to produce the claimed invention, absent some teaching, suggestion, or incentive supporting combination" (emphasis added) (attached as appendix 3). Put another way, "the mere fact that disclosures or teachings of the prior art can be retrospectively combined for the purpose of evaluating obviousness/nonobviousness issue does not make the combination set forth in the invention obvious, unless the art also suggested the desirability of the combination" Rite-Hite Corp. v Kelly Co., 629 F.Supp. 1042, 231 U.S.P.Q. 161, (attached as appendix 4) aff'd 819 F.2d 1120, 2 U.S.P.Q.2d 1915 (E.D. Wis. 1986) (emphasis added). Similarly, the court in, In re Vaeck, 947 F.2d 488, 20 U.S.P.Q.2d 1438 (Fed. Cir. 1991), stated that "both the suggestion [to make

the claimed apparatus] and the reasonable expectation of success must be found in the prior art, not in the Applicants' disclosure' (attached as appendix 5).

Here, there is no suggestion that the cited references should be combined. In fact, as noted above, the teachings of the references teach away from each other. The *Tsujimoto* reference teaches set teeth. This is in direct opposition to *Kullman* which teaches unset teeth. To introduce bent teeth of *Tsujimoto* would defeat the purpose of the *Kullman* teeth having various heights/widths. As such the combination of these references would not be obvious to one skilled in the art.

Claims 16, 17 and 19; Rejected Under 35 U.S.C. § 103(a)

Claims 16, 17 and 19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Tsujimoto* in view of *Kullman* as applied to Claim 15, and further in view of *Stoddard* (U.S. Patent No. 5,606,900). *Tsujimoto* and *Kullman* are discussed above. *Stoddard* discloses a blade having set teeth followed by a raker tooth. The raker tooth is structured to clean the cut channel between sets of cutting teeth. As before, there is no teaching, suggestion, or incentive supporting combination supporting the combination of these references. Moreover, for the reasons stated above, one skilled in the art would not combine a blade have set teeth with a blade having unset teeth. Accordingly, the rejection of claims 16, 17, and 19 under 35 U.S.C. § 103(a) is improper.

· Conclusion

It is submitted that Claims 1-4 are not anticipated by *Tsujimoto*. It is further submitted that Claim 15 patentable over *Tsujimoto* in view of *Kullman*. Is further submitted that Claims 16, 17 and 19 are patentable over *Tsujimoto* in view of *Kullman* and further in view of *Stoddard*. Therefore, it is requested that the Board reverse the

Examiner's rejections of Claims 1-5, 8, 9, 12, and 15-19 and remand the application to the Examiner for the issuance of a Notice of Allowance.

Respectfully submitted,

David C. Jenkins Registration No. 42,691

Eckert Seamans Cherin & Mellott, LLC

600 Grant Street, 44th Floor

Pittsburgh, PA 15219

(412) 566-1253

Attorney for Appellant

1. A saw blade comprising:

a bandsaw body having a centerline;

a plurality of unset teeth disposed on said band body, each tooth having a body with two outer sides defining a width, and a uniform height;

at least some of said teeth having a cutting extension extending above said tooth body height; and

each said cutting extension having two outer sides, said two outer sides defining the width of said extension.

The saw blade of Claim 1, wherein:

said teeth are disposed on said bandsaw body in groups;

each tooth in a group having a cutting extension which does not have a portion of the cutting extension substantially aligned with another cutting extension in the group; and

wherein within each said group, the sum of the widths of said cutting extensions is about equal to the width of the teeth bodies.

- 3. The saw blade of Claim 2, wherein within a said group of teeth, each said cutting extension outer side generally aligns with the outer side of the tooth body or with an outer side of an extension on another tooth within the group.
- 4. The saw blade of Claim 2, wherein within a said group of teeth, each said cutting extension being generally about the same width.
- 5. The saw blade of Claim 3, wherein:
 each said group of teeth includes a plurality of cutting teeth;
 each said cutting tooth having a cutting extension;
 each cutting extension having a width that is about equal to the width of the tooth body divided by the number of cutting teeth in the group.
 - 8. The saw blade of Claim 5, wherein:
 Appendix 1

: 39

said group has four cutting teeth including a first tooth, a second tooth, a third tooth, and a fourth tooth;

each said cutting tooth having a cutting extension with a width that is about one fourth the width of each said tooth body;

said first tooth cutting extension disposed with one outer side aligned with said bandsaw body centerline and said extension extending toward one tooth body outer side;

said second tooth cutting extension disposed with one outer side aligned with said bandsaw body centerline and said extension extending toward the tooth body outer side opposite the tooth body side said first cutting extension extends toward;

said third tooth cutting extension having an outer side aligned with the one outer side of said tooth body and an outer side aligned with an outer side of said first tooth cutting extension; and

said fourth tooth cutting extension having an outer side aligned with the outer side of said tooth body opposite the tooth body outer side aligned with said third tooth cutting extension, and an outer side aligned with an outer side of said second tooth cutting extension.

- 9. The saw blade of Claim 8, wherein said group having four cutting teeth includes a fifth tooth that is a raker tooth.
- 12. The saw blade of Claim 3, wherein:
 each said group of teeth includes a plurality of cutting teeth;
 each said cutting tooth having one or more cutting extensions; and
 wherein the sum of the widths of said one or more cutting extensions on each
 tooth having cutting extensions is about equal to the width of the tooth body divided
 by the number of cutting teeth in the group.
 - 15. The saw blade of claim 2 wherein:
 said each groups comprise a plurality of said teeth; and
 one or more groups have a different number of teeth than other said groups.

 Appendix 1

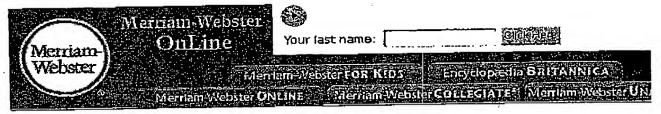
- 16. The saw blade of claim 15 wherein at least two groups are separated by a raker tooth.
- 17. The saw blade of Claim 16, wherein within a said group of teeth, each said cutting extension outer side generally aligns with the outer side of the tooth body or with the outer side of an extension on another tooth within the group.
- 18. The saw blade of Claim 17, wherein:
 each said group of teeth includes a plurality of cutting teeth;
 each said cutting tooth having one or more cutting extensions; and
 wherein the sum of the widths of said one or more cutting extensions on each
 tooth having cutting extensions is about equal to the width of the tooth body divided
 by the number of cutting teeth in the group.
- 19. The saw blade of Claim 17, wherein within a said group of teeth, each said cutting extension has about the same width.

Appendix 2

Page 1 of 4

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set[1,verb] set[2,noun] set[3 adjective] dresser set hard-set jet set



Main Entry: 1set 49 Pronunciation: 'set

Function: verb

Inflected Form(s): set; set-ting

Etymology: Middle English setten, from Old English settan; akin to Old High German sezzen to set, Old English sittan to sit

transitive senses

1: to cause to sit: place in or on a seat

2 a: to put (a fowl) on eggs to hatch them b: to put (eggs) for hatching under a fowl or into an incubator

3: to place (oncself) in position to start running in a race 4 a: to place with care or deliberate purpose and with relative stability <set a ladder against the wall> <set a stone on the grave> $b : \frac{TRANSPLANT}{1} < set seedlings> c(1) : to$ make (as a trap) ready to catch prey (2): to fix (a hook) firmly into the jaw of a fish d: to put aside (as dough containing yeast) for fermenting

5: to direct with fixed attention <set your mind to it> 6 a: to cause to assume a specified condition, relation, or occupation <slaves were set free> <set the house on fire> b: to cause the start of <set a fire>

7 a: to appoint or assign to an office or duty b: POST, STATION

8: to cause to assume a specified posture or position <set the door ajar>

9 a : to fix as a distinguishing imprint, sign, or appearance <the years have set their mark on him> b: AFFIX c: APPLY <set a match to kindling>

10: to fix or decide on as a time, limit, or regulation: PRESCRIBE <set a wedding day> <set the rules for the Merriam-Webste

Dictionary

Thesaurus



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game>

11 a: to establish as the highest level or best performance <set a record for the half mile > b : to furnish as a pattern or model <set an example of generosity>c: to allot as a task setting lessons for the children to work upon at home --Manchester Examiner>

12 a : to adjust (a device and especially a measuring device) to a desired position <set the alarm for 7:00> <set a thermostat at 68>; also: to adjust (as a clock) in conformity with a standard b: to restore to normal position or connection when dislocated or fractured <set a broken bone> c: to spread to the wind <set the sails> 13 a : to put in order for use < set a place for a guest > b : to make scenically ready for a performance <set the stage> c (1): to arrange (type) for printing <set type by hand> (2): to put into type or its equivalent (as on film) <set the first



word in italic> 14 a: to put a fine edge on by grinding or honing <set a razor > b: to bend slightly the tooth points of (a saw) alternately in opposite directions c: to sink (the head of a nail) below the surface

15: to fix in a desired position (as by heating or stretching) 16: to arrange (hair) in a desired style by using implements (as curlers, rollers, or clips) and gels or lotions 17 a: to adom with something affixed or infixed: STUD, **DOT** <clear sky set with stars> b: to fix (as a precious stone) in a border of metal: place in a setting 18 a: to hold something in regard or esteem at the rate of <sets a great deal by daily exercise> b: to place in a relative rank or category <set duty before pleasure> c: to fix at a certain amount <set bail at \$500> d: VALUE, RATE <their promises were set at naught> e: to place as an estimate of worth <set a high value on life>

19: to place in relation for comparison or balance <theory set against practice>

20 a : to direct to action b : to incite to attack or antagonism <war sets brother against brother>

21 a: to place by transporting <was set ashore on the island> b: to put in motion c: to put and fix in a direction <set our faces toward home once more > d of a dog: to point out the position of (game) by holding a fixed attitude 22: to defeat (an opponent or a contract) in bridge 23 a : to fix firmly : make immobile : give rigid form or

condition to <set her jaw in determination>b: to make unyielding or obstinate

24: to cause to become firm or solid <set milk for cheese>

25: to cause (as fruit) to develop intransitīve senses

1 chiefly dialect: SIT

2: to be becoming: be suitable: FIT < the coat sets well>

3: to cover and warm eggs to hatch them

4/9/2004

Appendix 3

tioners were temporary, and if so (2) whether the petitioners were nonatheless entitled to compete for these positions since 6 the Board must determine (1) hey favolved functions that were transferwhether the positions sought by the petiground that agency gave for decision). firm agency determination, if at all, red to the new agency. remand,

If the Board should conclude that these three petitioners were entitled to those poitions in place of the persons to whom the positions were assigned, the Board then of entitlement among petitloners Acerno, Anderson, and Watson to the two positions Only two of these petitioners could have been entitled to the two posttions all three of them are seeking. *Gr. Former CSA Employees*, 762 F.2d at 984. will have to determine the relative priority Involved.

CONCLUSION

employees seek were temporary and, if they were (2) whether the petitioners nevertheless are enduled to these positions AFFIRMED IN PART, REVERSED IN ration of Mr. Pizzi, Ms. Hudgins, and Ma. are remanded to the Board to determine (1) whether the two positions these former because they are "transition" positions. Filgrim are affirmed. The Board decisions sustaining the separations of Mr. Acerno, Ms. Anderson, and Ms. Watson are reversed, and the cases of those petitloners The Board decisions sustaining the sepa-PART, AND REMANDED.



This opinion issued as an unpublished opinion on December 11, 1986. On request of counsel

In re Gary E. GEIGER.

United States Court of Appeals, Appeal No. 86-1103.

April 1, 1987.

Faderal Chrult,

ing scale formation on and corrosion of The Court of Appeals, Archer, Circuit Judge, held that prima facle case of obvi-Applicant appealed decision of Patent peals and Interferences, which affirmed examiner's rejection of claims, on basis of metallic parts in cooling water systems. and Trademark Office Board of Patent Apobviousness, relating to method of inhibitousness was not established.

Before NEWMAN, Circuit Judge, SKELTON, Senior Circuit Judge, and

ARCHER, Circuit Judge.

ARCHER, Circuit Judge.

Reversed.

Paulhe Newmen, Circuit Judge, concurred and filled opinion

1, Patents @118(6)

Standard of review for conclusion of obviousness is correctness or error as a matter of law, 36 U.S.C.A. § 103,

2, Patents Dl6.6

combining teachings of prior art to produce suggestion, or incentive supporting combi-Obviousness cannot be established by claimed invention, absent some teaching, nation. 86 U.S.C.A. § 103.

Patents -18.35

have made it obvious to one skilled in art to try various combinations of known scale and corrosion prevention agents disclosed, but were insufficient to establish obvious: by use of compositions containing sulfonated styrene/malete anhydride copolymer, water soluble zine compound, and organophosphorus acid compound or water soluble salt thereof, disclosures in prior art referenced in instant patent application may various combinations of known scale not established with respect to method of inhibiting scale formation on and corrosion of metallic parts in cooling water systems Prima facte dase of obviousness was

for appellant, it is now being reissued as a published opinion.

ness, in absence of some suggestion in and U.S. Patent No. 4,256,269 Hwa, et al. (Hwa). Che se 813 F.3d 664 (Fed. Ctr. 1947)

prior art supporting combination which re-

sulted in Instant method, 36 U.S.C.A.

\$ 103,

SBued

587

component may contain malete acid and of, arganic phosphoric acid esters and water soluble saits thereof, and polyvalent styrene monomers, there is no disclosure of the specific copolymer, SSMA, required in The li patent discloses use in cooling water systems of scale and corrosion prevention compositions comprised of a polymeric component in combination with one or more compounds selected from the group consisting of inorganic phasphoric acids and water soluble salts thereof, phosphonic acids and water soluble salts therematai saita. Although the ii polymeric applicant's claims. seph F. Nakamura, Sol. and Fred E. McKel-Bruce E. Peacock, Betg Laboratories, Inc., Trevose, Pa., argued, for appellant. ö

ffee of the Sol, Arilngton, Va., argued, for appellee. With him on the brief, were Jo-

Robert D. Edmonds, Associate Sol.,

systems share a common problem in regard to scale deposit formation and that use of er and another polymeric component, which SMA to prevent scale in boiler water sysod for treating cooling water systems prone to scale formation by the addition of a composition comprised of an acrylle may be SSMA or a ctyrone/maleic anhy-The Snyder 153 patent notes that boiler and cooling water The Snyder 783 patent discloses a methscid/lower alkyl/hydroxy scryfate copolym dride (SMA) copolymer. tema is known. ferences (board), Appeal No. 606-09, af-Inited States Patent and Trademark Office [PTO] Board of Patent Appeals and Interfirming the examiner's rejection of all remaining cluims, 48-63 and 66-67, in appellant's patent application, Serial Number 378,903 ('903), under 35 U.S.C. § 103. We This is an appeal from a decision of the

The Hwa patent is directed to a method prone to scale formation by addition of a composition comprised of SSMA and an for treating boiler water systems that are organo-phosphorus acid compound.

apact to certain dependent claims, contain no suggestion to use SSMA, the specific copolymer recited in the appealed claims. The remaining references, cited with re-

compositions containing (1) a sulfonated styrene/make anhydride (SSMA) copolym-

(8) an organo-phosphorus acid compound or

water soluble salt thereof.

1862, is directed to a method of Inhibiting scale formation on and corrusion of metallic parts in cooling water systems by use of

application, filed on May

Beckeround

OPINION

e : ;

composition used in the claimed method is 103, to employ these components in com-Sination for their known functions and to optimize the amount of each additive. The that each of the three components of the conventionally employed in the art for treating cooling water systems, the board held that it would have been pritha facte obvious, within the meaning of 35 U.S.C. board further held that data appearing in Based upon the prior art and the fact er, (2) a water soluble zinc compound, and tions under 35 U.S.C. \$ 103, finding that the claimed subject matter would have

the board affirmed the examiner's rajec-

In its decision dated February 7, 1986,

been obvious in ylew of various combinstions of references, but with rallance primarily upon U.S. Patent No. 4,209,398 is-733 issued to Snyder, et al. (Snyder '739) cistus 47 and 49.

1. Hwe was elsed only with respect to dependent

med to II, et al. (II), U.S. Patent No. 4,874.

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815 PEDERAL REPORTER, 24 SERIES

spellant's specification, and supplemented by a declaration submitted pursuant to 37 C.F.R. § 1.132, provided insufficient evidence of nonobviousness to rebut the prima acia casa.

/sames

Whether the board erred in finding that prima facle case of obviousness was esusblighed.

2. Assuming that a prima facie case of obviousness was established, whether the board erred in fluding that appellant's objetive evidence with regard to unexpected results was insufficient to rebut that prims facie case,

Analysis

of 1849. In 50 Cavour, 761 F.2d 671, 614, 226 USPQ 1, 8 (Fed.Gr.1885)] In 10 De-Blonwe, 738 F.2d 699, 708, 222 USPQ 191, 86 S.Ct. 684, 15 L.Ed.2d 646; 148 USPQ 459 230 USPQ 416, 419 (Fed.Ch.1986). For a Ž based upon the factual inquiries mandated Bousch & Lomb, Ind v. Barnes. conclusion of obviousness, the standard of in Graham n John Deare Co., 383 U.S. 1, Hind/Hydrocurve, Inc., 196 F.2d 448, 447. review is correctness or error as a matter Obviousness is a question of 195 (Ped.Cir.1984).

erence teaches SSMA in combination with

was known to use tint ions slone or

combinations of known scale and corrosion prevention agenta, including the combinato establish a prima facte case of obvious. was erroneous. Appellant argues that the struction or, at best, established that it would have been "obvious to try" various ness and, consequently, that the board's affirmance of the examinar's rejections PTO's position represented hindsight recon-Appellant contends that the PTO failed tion recited la the appealed claims.

of the prior art to produce the claimed be established by combining the teachings essore Hospital, 132 F.2d 1672, 1577, 221 [2, 3] We agree with appellant that the PTO has falled to establish a prima facte case of obviousness. Obviousness cannot invention, absent some teaching, augges tion or incentive supporting the combination, ACS Hospital Systems, Inc. v. Mon

USPQ 829, 938 (Fed.Cir.1984). We are convinced that the latter are not present here.

SSMA could prevent precipitation of the sine (II) ion in alkaline cooling water in the to use SSMA in combination with an orgacharacteristics may atgnilleantly differ from those in Hwa's boller water system. Hwa also provides no suggestion that manner asserbed to the polymeric comporespect to claims 47 and 49, Hwa does phosphorus acld compound. It provides, however, no suggestion to add a zinc compound to its disclosed combination of SSNA and organo-phosphorus acid compounds, or no-phosphorus acid compound in the treatment of a cooling water system, where the it is for the purpose of showing that it, or yet another polymeric component, an acrylymer, to prevent scale formation. With disclose the specifically-recited organoble compounds and precipitating...." Allymers, may be used in combination with Il notes that it is difficult to maintain a predetermined concentration of polyvelent metal lone, such as the zinc (II) lon, in nikaline cooling water, but states that its claimed polymeric component prevents the "polyvalent metals from becoming insoluthough Snyder '733 discloses use of SSMA, one of three other specifically recited copo is acid/lower alkyl/hydroxy acrylate copoli does not suggest use of SSMA as its claimed polymeric companent and does not require the presence of an organo-phosphorus acid compound or of a sinc compound. hent of II,

At best, in view of these disclosures, one skilled in the art might find it obvious to However, this is not the standard of 36 U.S.C. § 103. In re Goodwin, 676 F.2d 376, 377, 198 USPQ 1, 3 (CCPA 1978); In re Antonie, 659 F.2d 618, 195 USPQ 6 try various combinations of these known (CCPA 1977); In re Tombinson, 868 F.2d scale and corrosion prevention agenta. 828, 150 USPQ 623 (CCPA 1986).

obviousness, we need not reach the issue of Because we reverse on the basis of fallure to establish a prima facili case of the sufficiency of the showing of unex-REVERSED

The second second second second

The applicant, in rebuttal of the PTO's Clina 113 F 24 666 (Fed. Ofr. 1957) IN RE DEIGER Circuit . Judge, PAULINE NEWMAN,

this argument the applicant relied on exper-The specification contains data on the prima facle case, argued that his three-comand that the superiority was not obvious in view of the cited references. In support of ponent system exhibits superior properties inental data in the specification. nent-system to control scale and corrosion being (1) rinc ions, (2) a copolymer of suifo-nated styrene and maleic anhydrids fully do not share the view that the PTO mols the evidentiary procedures and bur-The claims are directed to a threa-compoin cooling water systems, the components (SSMA), and (3) an organo-phosphorus acid I agree in the court's result, but respectnot present a prima facio case that the claimed invention would have been obvious to terms of 85 U.S.C. § 103. I write saparately because the determination of whether a prima facio case of obviousness has been made is a critical decision that con-

dens before the PTO.

of applicant's system; this was not dis-puted. The Board nevertheless held that the prime facts case was not rebutted because the applicant did not include deta showing the properties of SSMA alone, ons combinations of components, including data comparing the applicant's three-part part systems containing other preferred stating that "the superior performance of such compositions may be due to the superiority of SSMA visa-vis the other scale corrosion/scale control capability of varisystem containing SSMA with other threoscale-preventing polymers of the prior art. These data showed significant superlority preventing copolymers." or salt. A three-part system is described in copolymer component (2) is different. There is no teaching of SSMA in the li reference. However, the Snyder '733 refthe Il reference for the same purpose, but differs from applicant's system in that the

In comparison with systems containing the ganophosphorus compounds. Ha also comtaining other known polymoric scale inhibicomparative showing "must be sufficient re Johnson, 147 F.26 1455, 1461, 223 USPQ demonstrated the exceptional corrosion inhibition achieved with his three-part system known corrosion inhibitors that lon and orpared his combination with systems contors such as those taught by II, and demon-He also demonstrated that neither polymait would have been of scientific interest to ing was reasonable and sufficient. He compiled with the requirement that the to permit a conclusion respecting the relative effectiveners of applicant's claimed compounds and the compounds of the closest prior art," In re Payne, 606 F.2d 303, 316, 203 USPQ 246, 256 (CCPA 1919), and must "provide en adequate busis to support a legal conclusion of unobylousness," In The applicant strated that those systems did not provide the improvement in corrotion and scale con-I agree with the Board to the extent that Include auch data. However, as a matter of law I believe that the applicant's show-1260, 1264 (Fed,Cir,1994). -8 other polymers to control scale in cooling Hwa does not use zinc ions, and it is known that sinc lons produce undesirable results In bollers, but the il reference states that it combination with organo-phophorus acids or sake to inhibit corresion in cooling wewater systems. The use of SSMA in cooperation with phosphonate is known to reduce scale and sludge in bollers (Hwa).

...

ing welet eystems. In to Kerkhoven, 626 F.2d 816, 860, 206 USPQ 1069, 1072 (CCPA 1980); Minnesota Mining & Manufacturrus compound and sine ions, both known Board so has been described, separately or in partial prima facte obvious to replace the polymer component of Ii with the known scale inhicorrosion inhibitors, to SSKA to achieve fng Co. n. Anzul Co., 213 USPP 1024, 1033–34 (B.D.Wis.1981). The Board so held. Thus each of Gelger's three components combination, for use in cooling water aystems. In my view, it would have been bitor SSMA, or to add an organophosphoboth scale and corrosion resistance in cool

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Appeal from

DECISIONS WITHOUT PUBLISHED OPINIONS

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leic anhydrica nor sulfonated polystyrane had the same effect on corrosion resistance as did the SSMA copolymer.

most relevant prior art. It is not required that the cialmed invention he compared with subject matter that does not exist in to create prior art, nor to prove that his invention would have been obvious if the Applicant compared his system with the prior art were different than it actually The applicant is not required the prior art.

Board also upheld the examiner's The Hwa system is for the reduction of additional rejection that it would have been that zinc lon is not usable at high temperanot contradict this position on its scientific obvious to add sinc ion to the two-component SSMA/phosphonate system of Hwa. scale and sludge at the high temperatures of steam boilers, and it was uncontroverted Applicant provided data showing that the Hwa system is relatively ineffecuve in a cooling system. The Board did

The applicant compared SSMA/phosphone (Hwa) slone, SSMA/tlnc, and phospaonate/sinc, with his three-component

These results are sufficient in themselves to rebut a prima facie case of results that the odrfonanasa. See In re Do Blauve, 736 F.2d 699, 705, 222 USPQ 191, 186 (Fed.Cir. perform held showed "superior and achieved Board

Turning to the rejection on the breadth of the claim language, the limitations in the claims appear to be reasonably commensurate with the disclosure, Although I do not agree with the applicant that it is incumbent on the Commissioner to offer "technical evidence", applicant's apecific examples are illustrative of the limitations described 668 F.2d 1008, 1017, 184 USPQ 167, 185 in the specification, and are not in them-(CCPA 1977); In re Gosse, 542 F.2d 684, 567, 191 USPQ 429, 491 (CCPA 1976). selves further limitations. In re Johnson



UNITED STATES COURT OF APPEALS

First Circuit

DECISIONS WITHOUT PUBLISHED OPINIONS

Title Wells Real Es Lopes Cruzed Health and	Docket Number Wells Real Enais, Inc., in re., 86-2145 Lopes Grundo v. Secretary of Health and Human Services 86-1337 While v. Town of Ollford 86-1844	155 155 844 844	Date 1/5/67 1/7/87	Disposition DENIED VACATED AND REMANDED DISMISSED AND REMANDED	ond Cleaton (<u>if reported</u>) D.Alast. D.P.R.
Filard v, Zamora		1719 181 181 699	1/8/87 1/8/87 1/8/87 1/8/87	REMANDED AFFIRMED AFFIRMED AFFIRMED AFFIRMED AFFIRMED	D.P.R. D.Me. D.Me. D.Me.
Puerto Rico	3 3 3 3	1714 1800 1518	1/20/87	AFFIRMED AFFIRMED AFFIRMED GRANTED: VACATED AND REMANDED	D.P.R., 637 F.Supp. 436 D.Mais. D.N.R. L.N.S.
Laternational Ladest Garment Workers' Unfon v. Ball Co 86–2065 Pallon, In re	86-2065 87-1003	2065 11159 1003 7971	1/29/87 2/3/87 2/4/87 2/10/83	DISMISŠED AFFIRMED DENIED AFFIRMBD	D.P.R., 649 F.Supp. 1033 D.M.R. D.N.R.
Ass'n, Local Union 17	4 7 7	1579	2/12/87 12/13/87 12/18/87	DISMISSED AFFIRMED DENIED: AFFIRMED	D.Mall., 619 F.Supp. 1073 D.Mass. D.Me.
Font Ib re	2	13 E	1/25/87	DISMISSED AFFIRMED	D.P.R. D.Mass., 629 F.Supp. 540
Crus, Serveny of Hesin and Ruman Services Levaseur, In re	8 4 8	1138	3/4/87 3/6/87 3/10/87	AFFIRMED DENIED AFFIRMED	D.P.R. D.Mess. D.P.R., 431 P.Supp. 1013

ECKERT SEAMANS

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Appendix 4

629 FEDERAL SUPPLEMENT

ployees are customarily posted for a period of sixty (60) days. Any employee seeking a copy of this Order shall be provided with Rights Act of 1864, the Florida Human be posted conspicuously in Defendant's nation with all of his employees and inform iself. Moreover, a copy of this order shall workplace in locations where notices to emall employees that racial harassment and discrimination violates Title VII of the Civil Relations Act, and the policy of defendant notify this Court of compliance by Illing vidual or organization providing such training for each employee attending. The general manager shall rules affirmatively the subject of racial harassment and discrimihuman resource development training classes as soon as practicable and shall certificate of completion, algned by the indiand equal employment opportunity related

priate distipline directed at the offending party. Further, defendant shall seek to generally develop other means of prevent erimination, including warnings and approbe required by this grievance procedure to promptly take all necessary staps to investigate and correct any harassment or diswith counsel for pisintiff and provided to whereby harassed employees may complain to the general manager immediately and confidentially. The general manager shall harsesment is eradicated. This grievance procedure shall be written in consultation all amployees. It shall establish a system Further, the defendant shall institute a grievance procedure in accordance with its own policy manual which shall be designed to swiftly and effectively assure that rackal ing harasament in its work place. Bundy, at 947.

The Court retains jurisdiction to monitor this injunction, upon proper motion, to asure that no discrimination occurs in the

costs of this action and to reasonable attorin award reasonable attorneys' fees and neys' fees. The Court retains jurisdiction (14) The plaintiff shall be entitled to all

dling Corp., John L & Associates, Inc., bern & Associatés, Inc., Todd Equipment Corporation, U.S. Materials Haning Dock Equipment Co., Inc., McCormick Equipment Company, Inc., Metro Dock Specialists, Inc., Mid.Atlantic Handling Bystems, Inc., Nichaus Industrial Sales, Inc., Northway Material Handling Co., Inc., Rice Equipment Co., Stokes Equipment Company, Inc., Timand Stordox Equipment Co., Plaintiffs, dling Co., Applied Randling, Ino., C & Leguipment Corporation, W.E. Carl. ment Campary, Inc., Johnson Equipment Co., Inc., King Industrial Equipment, Inc., Load. negring & Sales Co., Inc., Indy Equip-Equipment Systems, Inc., Great Northern Industrial Prod., Inc., HOJ Engl. Dock Specialists, Inc., Allied Equipment Corp., Anderson Material Han-Corporation, R.B. Curlin, CORPORATION,

KELLEY COMPANY, INC., Defendant Civ. A. No. 83-C-134.

United States District Court, March 5, 1986.

for patent, involving restraining device used to hold truck in place while being was walld and infringed, but (2) stay of Injunction pending appeal would expire within 80 days of filing date of decision and order unless notice of appeal was filled Chief Judge, held that: (1) asserted claims loaded or unloaded from a loading dock Action was brought for parent intringoment. The District Court, Reynolds, within that period,

Order in accordance with opinion. See also, 29 F.R.D. 332,

"as a whole" in detarmining obviousness is Fallure to consider claimed invention An error of law. 85 U.S.C.A. \$ 103. 1, Patenin mit.1

RITE-HITE CORP. V. KELLEY CO., INC Cite as 429 P.Supp, 1042 (E.D.Wie, 1986)

Determination that a claimed invention is "anticipated" under 36 U.S.C.A. § 102 is a factual determination. 1. Patents 0=314(5)

8. Patents @72(1)

prior art reference, or that claimed inven-tion was previously known or embodied in single prior art device or practice. 35 U.S. or implicitly described under appropriate previously known or embodied in single claim was anticipated must show that each and every element of patent claim is found, as arranged in the claim, either expressly principles of inherency, in single prior art reference, or that claimed invention was Party which seeks finding that paten C.A. < 102

• : ``

9. Patents 6-311(1)

doctrine of equivalents as well as to literal fringement by a preponderance of the evidence extends to infringement under the Burden of patent owner in proving ininfringement 36 U.S.C.A. § 271(a).

10. Patente @226

and has what is patented been made, used, or sold by another. 36 U.S.C.A. \$ 271(a). lasus of infringement of a patent rafa es at least two questions: what is patented

11. Petents @226.6

In patent infringement action, patent cisims measure invention and define boundaries of patent protection, 35 U.S.C.A.

12. Patents \$226.6

If altegedly infringing product falls liverally within patent claim when words are given their proper mending, intringement of patent is made out, and that is the end of the Inquiry, 35 U.S.C.A. §§ 112, 271(a).

13, Potente \$226.6

Question of patent infringement is resolved by comparing acqueed device with described in the patent or the patentee's commercial device. 35 U.S.C.A. §§ 112, claims of the patent, not with the structure

2, Pulents Dife.6

ing level of "ordinary skill in the art," when considering obviousness of an invenion, may include educational level of one of ordinary skill, types of problems encountered in the art, prior art solution to those problems, rapidity with which innovations are made, and sophistication of the technolagy; not all of such factors need be considered in every case, and one or more factors may predominate or be given more weight in a particular case. 35 U.S.C.A. Factors to be considered in determin-

3. Patenta @16.5

prior art can be retrospectively comness/nonobylousness issue does not make the combination set forth in the invention obvious, unless the art also suggested desirability of the combination, inventor's beneficial results, or advantage to be derived from combining the teachings. 35 Mere fact that disclosures or teachings bined for purposes of evaluating obvious U.S.C.A. § 103.

4. Patents &36.1(8, 4; 6), 26.2(1)

Objective evidence of nonobylousness of an invention includes whether patented invention fulfills long-felt need in industry to which it applied, whether others tried and falled to meet the need which the invention ultimately satisfied, whather the pacented invention met with substantial success upon its intraduction to the market, and whether the accused intringer recognited that the invention was truly meritori ous. 36 U.S.C.A. § 103

5, Putente (36,1(5)

alleged infringer thinks of the patent in. alleged infringer is strong evidence of what In determining nonobylousness of parsuit and is persuasive of what the rest of the world ought to think. 85 U.S.C.A. ented invention, imitation of invention by

6. Palenta Corte(1)

To essert that a patent claim is anticipated under 85 U.S.C.A. § 102, a party must demonstrate identity of Invention.

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in light of the specification, and both are to be read with a view to accertaining the Claims of a patent are to be construed Invention. 36 U.S.C.A. § 112. 14. Patents 4-167(1)

Each patent claim must be considered as defining a separate invention. 15, Patente @166(1)

18, Patents & 165(3)

structure insofer as it performs the stated function. 35 U.S.C.A. § 112. which is the equivalent of that described combinations that utilize any structure tions which utilize as the stated means the performing the stated function and also all Patentee's claim covers all combinatructure described in the specification for

17, Patente @188(1)

claims in patent, and expert testimony; "means" claim may be determined. 36 cation, prosecution history of patent, other once such factors are weighed, scope of the sidered; language of claim, patent specifi-In construing a "means plus function" ciaim, a number of factors may be con-U.S.C.A. § 112.

18. Patente 0=314(6)

the patent claim in issue is. a question of issue as to whether a device is an equivasiont of the described embodiment of fact. 85 U.S.C.A. § 112,

19, Patents @ 134, 239, 240

ter claimed by patent owner or performs additional functions or adds features or is fringsment by mere fact that its invention more or lass efficient than subject mat-Alleged infringer cannot escape inan improvement: 85 U.S.C.A. § 112.

Narrow patent claim ilmitations cannot read into broader claims to avoid 20, Patents \$728.8

Claims of a patent are the measure of fringement. 36 U.S.C.A. § 112. 21, Patents (=) 66(2)

the protected invention. 86 U.S.C.A. § 112.

22. Patents @ 237

iniringer who appropriates the invention even if the infringer avoids the literal lantrating a fraud on the patent; the doctrine is designed to protect a patentae from an guage of the claim. 86 U.S.C.A. \$ 112. "Doctrine of equivalents" odds latitude and breadth to application of patent chaim language to prevent infringer from perpe-See publication Words and Phrases or other judicial constructions and

definitions.

claim is entitled is on a sliding scale de-pending on the nature of the invention. Is Range of equivalents to which a patent 23. Potents @172 U.S.C.A. § 112.

24. Patenii en 178

identical means and mode of operation strued liberally and are not to be limited to When patented invention has had significant commercial success or is of the pioneer type, patent claims are to be conshown in the patent. 35 U.S.C.A. § 112.

neeking suspension

make substantial contribution to existing art and patents that consist of combination of old ingredients that produce new and Broad protection is given not only to so-called ploneer patents, but patents that useful results, 25 U.S.C.A. \$ 112. 25. Patents C-178, 174

32. Federal Courts Co 686 .

62(c), 28 U.S.C.A.

range of equivalents commonsurate with the scope of the invention. 26 U.S.C.A. Cisins of a patent are entitled to a 26, Patente milia \$ 112

27. Patenla @237

than that disclosed in specific embodiment of patent does not allow alleged infringer to escape appropriate range of equivalents and thereby avoid intringement of the ponent that may be more sophisticated Mere use by slieged intringer of comclaimed invention. 35 U.S.C.A. § 112.

28. Patents 4-319(4)

ė

should recover prejudgment interest under 35 U.S.G.A. § 284 in order to prevent infor infringement of its patentee In addition to other relief recoverable

The second secon

Jr., Lawrence E. Apolzon & Roger H.

.-Theodore W. Anderson, Arthur W. Olson,

Rules Civ. Proc. Rule 82(c), 23 U.S.C.A. peal was filled within that period.

Stein, Neuman, Williams, Anderson & Olson, Chicago, Ill. and Gilbert W. Church, Foley & Lardner, Milwaukee, Wis., for RITE-HITE CORP. V. KELLEY CO., INC. Cie 11 523 F. Lupp. 1042 (E.D.Wu. 1966) platntiffs. ringer from having benefit of use of money which it would have been paying in

& Sawall, and Motthew J. Flynn, Quarles & Glenn O. Starke, Andrus, Sceales, Starke

Claims 1, 2, 3, 8, 12, and 13 of patent lavolving restraining device used to hold a

29. Petents -16.14, 235(2)

royalties.

truck in place white being loaded or unload-

ed from a loading dock were valid and

Even though notice of appeal had

30. Federal Courts 4-635

infringed.

Brady, Milwaukee, Wis., for defendant.

seek a judgment that a truck restraining that Kelley has competed unfairly by its use of a promotional film. Kelley has patent is obvious in view of the prior art and is therefore void, and that Rike-Hite Hita") and its independent representatives device manufactured and distributed by deinfringes a patent owned by Rile-Hite, and counterclaimed, alleging that Rite-Hite's This is an action in patent infringemen and unfair competition. Federal jurisdic fendant Kelley Company, Inc. ("Kelley" tion derives from 28 U.S.C. § 1338. plaintiffs Rite-Hite Corporation has competed unfairly.

.....

of lishility and damages be tried separationly. Rite-Hite also applied for preliminary injunctive relief with respect to its claim of The parties have agreed that the issues unfair competition respecting Kelley's promotional film, and Kelley was enjoined from further use of unexpurgated versions of the film by the Court's order of March 16, 1984. Kelley was subject to this order at the time the traves of liability on the patent claims and Kelley's claims of unfair competition were tried to the Court. parties to the lidgation, and stay is in the

pels a decision that the patent is valid it was not obvious. And I am sorry that have to Und that the patent was in

Stay pending appeal, without bond, of

33. Federal Courts 0=635

82(c), 28 U.S.C.A.

Petends \$324.1

fringing patent would expire within 30

injunction enfoining competitor from indays of filling date of decision and order granting the injunction unless notice of ep-

willful. I think that the Kelley people, in the apirit of good competition, Rite-Hite do not believe the infringement was came out with a product, and they wanted to meet the product and they did the fringed.

DECISION AND ORDER

REYNOLDS, Chief Judge.

pend final judgmant granting injunction if of judgment pending appeal can show that it is likely to 趸 conditioned on movant's filing of notice of to grant stay of Injunction pending appeal prevall on merits on appeal, it will suffer stay would not substantfally harm other yet been filed, district court had suthority appeal within a specified period. Fed. District court may in its discretion suspreparable injury unless stay is granted,

Rules Civ. Proc. Rule 62(c), 28 U.S.C.A.

31. Federal Courts & 686

cess on the merits on appeal need not be made in order to obtain stay of injunction and grant of stay would cause only alight harm to appelles. Fed Rules Clv. Proc. Rule Interest, Fed.Rules Giv. Proc. Rule Showing of absolute probability of sucpending appeal if injunction would destroy status quo, irreparably barming appellant

The foregoing claims were tried to the Court between May 20 and May 29, 1985. At the close of the proceedings, I stated I am persuaded that the evidence com-

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could and certainly did not think the evidence compels me to find intend to infringe on that patent, but i that they did.

since we had the hearing on preliminary injunction. I see no reason for the Court in the exercise of its discretion and infar as this advertising. The film has not been used for a couple years, or at least junctive powers to be issuing-equity powers, usuing any more injunctions for of the federal court I think should be used very sparingly. I don't think there is any irreparable injury on either side as As far as the unfair compelition insues involved, the use of the injunctive powers elther side

lows, therefore, are essentially the findings of fact and conclusions of law proposed by plaintiffs with exceptions where a defense objection has been sustained by the Court in view of the evidence presented at trial be sustained, but that others would direct an outcome favoring the defendant and are not supported by the evidence. What folsusded that tertain of the objections should fendant has objected to certain provisions, and the plaintiffs have responded to the objections. Kelley has size moved for a stay of the Injunction pending appeal, and proposed findings of fact and conclusions of law, with a period of time allotted to defeadant to comment thereon. The plaintiffs have filed their submission, the de-Rite-Nite opposed this motion. I am per-The plaintiffs were then directed to file

1. FINDINGS OF FACT

A. Parties and Jurisdiction

ness at Milwaukee, Wisconsin. The other exclusive sales representatives throughout poration having its principal place of bustpislauffs are Rite-Hite's independent and 1. Plaintist Ble-Hies is a Wisconsin cor-

the country.

2. Defendant Kelley is also a Wisconsin Rite-Hite and Kelley, together, are corporation with its principal place of business at Milwaukee, Wisconsin.

dominant factors in the dock leveler indus-

try and have been keen competitors since

has jurisdiction under 28 U.S.C. § 1928(a), and venue lies in this district under 26 4. This is an action for patent infringement evising under the patent laws of the United States, Title 38 U.S.C. The court Rice-Hite was founded in 1965. U.S.C. § 1400(b).

9. For years, dock leveler users and unloading was done manually.

> State of Wisconsin. The court has jurisdiction under 28 U.S.C. § 1388(b). the statutory and common laws of the claims for unfair competition arising under 5. There are also claims and

History of the Case

ei ei

unction enjoining use of a motion picture preliminary injunction motion, the unfair competition count was heard by this Court on February 27 and 28, 1984. A decision was rendered in savor of Rite-Hite on March 16, 1984, granting a preliminary infilm which appeared to characterize unfairas well as with unfair competition. On a of U.S. Patent 4,373,847 (the '847 patent), 6, This action was initiated in early 1983, shortly after the patent-in-sult issued. Rite-Hite charged Kelley with infringement ly Rite-Hita's Dok-Lok product.

truck and the dock.

Dock Specialists, Inc., et al.-have certain patent owned by the plaintist Rite-Hite, and ander which the other plaintiffs—Acme exclusive territorial rights, and (2) whether patent is invalid. The remaining issues relate to unfair competition and are men resentatives, and the motion was granted. A trial was held before the Court in this Kelley could carry its burden that the '847 7. Rite-Hits subsequently filed a motion for intervention on behalf of certain independent and exclusive Rite-Hite sales repaction from May 20 through May 29, 1985. The main toques were (1) whether or not the defendant Kelley has infringed the '847 tioned further below

"trailer creep."

C. Rite-Hite's Background

boards, are devices that automatically or semi-sucomatically bridge the gap between 8. Dock levelers, or sucometic docks truck and a dock so that forklift trucks

the problem. Kelley worked on a somewhat similar and equally ineffective "com RITE-HITE CORP, V. KELLEY CO., INC. munication" system. Cite at 619 F.Supp. 1041 (E.D.Wis, 1986) can safely pass over that gap during the ers, in general, have replaced the loose loading and unloading process. Dock level-

drop. This, in turn, tends to tip the whole dockboard downwards and pitch the forkpulls away, the end of the dockboard lip that was supported by the truck tends to This is because, in normal operation, the in a stationary position on the deakhoard outward or free and of the dockboard resta on the bed of the truck. When the vehicle 19. In yet another situation, the forkilift driver can suffer severe or fatal injuries even if, when the truck inadvertently separates from the dock, the forklist is perked and is fully supported by the dockboard. lift, its operator, and/or its load onto the driveway. plates that were often used when loading and manufacturers as well as regulatory agencles recognized that a safety hazard existed because of the way that large trucks and trailers, for a variety of reasons, inadvertently separated from the dock during the loading or unloading process. If this happens a forkilft can fall through the gap between the truck and dock onto the driveway below, and the results for the forklift truck and its operator can be catastrophic. 10. For instance, the forkillt truck will shoost always drop to the pavement if,

from the dock. Kelley developed its "Panic Stop," which was patented in the middle 1950's (DTX-189-8). This device had a ratchet that was engaged to prevent the ty Legs" in the early 1970's which, when not needed, could be pulled away, but when In normal operation, limited the extent to ed a complete solution to the problem, but they clearly recognized the very real hasard and need, In its 1966 patent (DTX-188-8), Kalley acknowledged that dock accidents could result in death and added that the problem of accidental dropping of the ramp "has been a thorn in the side of mechanical dockboards for as long as such board could tip downwards in the event of the inadvertent separation of the truck outward end of the dockboard from moving downward if the dockboard started to move down abnormally fast. This prevented the further downward progress of the board. Rite-Hite also developed its patented "Safewhich the dockboard would descend in this situation. Neither of these devices providboards have been made" (DTX-188-8, col. 14. To eliminate this latter hazard, dock ers to limit the extent to which the dockleveler manufacturers many years ago de algned safety devices into their dock bevel 2, lines & 13) disaster. This phenomenon is sometimes referred to by Kelley and Rite-Hite as all to keep the forklift and its operator from falling through the gap between the parked in a position where it is supported in part by the dockboard end in part by the truck. In this situation, there is nothing at the truck away from the dock can produce problems, but lacking a real solution in the late 1960's and early 1970's, Rite-Hille prowhich included wheel chocks, a large warn-But these were not an adequate remedy for when the truck pulls away, the forklift is 11. The forklift truck will also be exposed to this type of accident if it is moving either into or out of the truck or trailer at the time the truck separates from the dock. In such estuations, the driver may not notice the gap and drive the forklift off the truck bed, especially if he is backing up out of the truck. Another hazard exists from sudden accelerations and decelerations of a loaded forklift inside a truck. In this situation, a considerable force tending to push 12. Aware of these life-threstening rided its only answer at that time, its Total ng sign, and a "Dock Safety Rules" sign, Dock Safety (T.D.S.) Package (PTX-3)

exhibits as "DTX ____

References to plaintiffe trial exhibits will be identified as "PTX" and defendants telal

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Hite filed a patent application resulting in

in the art of restraining trucks, and Rita-

vice was another substantial advancement

629 PEDERAL SUPPLEMENT

disputes between dock equipmont manufacturers. Rice-file sold its devices as standard equipment. Kelley's devices were be sold as "options" or whether they should always be made mandatory features on all dock levelers was the subject of 15. The question of whether the dock-board safety devices described above could ield as options.

time, Wheel thocks were ineffective. Warning and "communication" systems Standards Institute (ANSI) Safety Commit-tee MH14 was held in October 1975 to consider, among other things, this question of whether "safety legs" on dock levelers and representative at the meeting, Arthur White, became convinced that these safety stop devices then being offered were an approach to only part of the problem. He concluded that what was really needed was something to restrain the vehicle physically so that it could never move away from the dock justivertently. No effective device was offered on the market at that course of this meeting, Rite-Bite's founder should be options or standsrd. During the 16, A meeting of American National were likewise ineffective.

The Development of Vehicle Rostraints at Rite-Hite ä

Lok vehicle restraints, the rest of the lo-dustry, including Kelley, were skeptles or ies of basic inventions that Rite-Hite made Rive-Hite introduced its commercial Dok-The '847 patent claims one of a serduring a product development program that lasted for a number of years. After copy is ls.

Another device developed shortly there-18. Bite-Hite's development program was long and arduous, Rite-Hite's first vehicle restraint, which was developed by after consisted of a pipe clamp type of atch which held a flexible steel cable and industrial hook that could be attached to anism mounted on a driveway in front of a was disposed at an angle relative to the 1877 but never marketed, involved a mechteading dock. The "engaging mechanism" driveway and engaged a part of the truck.

(Naxible cable) that ultimately issued as U.S. Patent 4.146,838 on March 27, 1979 (PTX-1b). A physical example of this de-Hite filed a patent application in October of 1977 for the Hydraulic Securing Device vice was demonstrated at the trial (PTXany holes or crevices in the trailer to hold it in place (PTX-16). The next effort invertently saparating from the dock. Ritevolved a flexible cable and hydraulic holding device (PTX-124). Both of these devices were mounted on the dock platform. These devices all parformed the same function that they were designed to perform, I.e., they prevented the truck from inad-3

requires on most trucks to prevent low

either on the driveway, where they could be hit by trucks or anowplows, or on the top surface of the leading dock, where they could obstruct traffic or be vulnerable to 19. But these early vehicle restraints had drawhacks. They were relatively expensive, and they were relatively difficult to use. They were also obtrusive and vulnerable to damage because of their location forklift trucks moving about the dock.

Physical exhibits of these devices were also demonstrated at the trial (PTX-17 and related position with the shank pendent along the wall. As the pivoted hook members refined over several generations, the hook was operable either manually (by a device represented a major advance in the Rite-Hite-filed a patent application which 20. By the spring of 1978, Rite-Elle had developed a vehicle restraint mounted on the vertical face of the dock where it was less of an obsergetion and less likely to be demaged. This device included a "pivoted hook" member. The hook had a shank plyoted to the wall and a right angle hook. driver standing on the driveway) or automatically (with the power of an activated dock leveler). When used, it was pivoted upwardly to an operative mode to engage the truck via the truck's ICC bar. This art of vehicle restraints. Accordingly, to engage a vehicle. The book member, when not used, was stored in a downwardly

ment of the ICC bar so that the carriage moved down against the springs as the truck backed into the dock, The downward

movement of the carriage positioned the hook so that it was always in a good position to be activated and pivoted up to engage the ICC bar. With this device, Rite-Hite found it could accommodate the rest

RITE-HITE CORP. V. KELLEY CO., INC. Cite to 629 P. Supp. 1043 (E.D. Wils, 1984)

(PTX-6h). A physical exhibit of this device was demonstrated at trial (PTX-19). U.S. Patent 4,282,621 (the back was the fact that they were ilmited in terms of the variations in ICC bars that these devices with a pivoted book also had drawbacks. The main draw-

along which the carriage slides so that the was also demonstrated at trial (PTX-181). 28. In 1979, Rite-Hite developed some improvements which further refined this 'pivoted hoak" restraint. Among other things, the springs are incorporated into opposite sides of the trapezoidal carriage restraint can operate independently of any dock bysler, and rotation of the hook was motorized. It is this version of a restraint with a pivoted hook that was ultimately commercialized in the spring of 1980 as the Model ADL-100 Dok-Lok vehicle restraint. U.S. Pacent 4,264,269 (the '259 Patenti (PTX-63), disclosing and claiming this device, issued on April 23, 1981. This device could be accommodated, ICC bars are bars them in the event of rear-end collisions. To Rite-Hile conducted surveys of thousands road trailers and also provided Rite-Hile ground. Rite-Hits found that the ICC bar height varied as much as 15 inches from that the Interstate Commerce Commission automobiles from running underneath earn about the variations in ICC bars, of trailers and obtained data from trailer manufacturers. These surveys indicated that ICC bars were present on all overthe with extensive knowledge about the differ-ences that existed between the various ICC

E. U.S. Patent 4,373,847

vehicle restraint that was simple, more objectives was cost reduction and simpliffcation. In order to achieve that objective, a manually operated, if desired, was sought. rugged and inexpensive, and that could be 24. Rite-Hita's development program continued after the introduction of the Model ADL-100, One of the program's

Float was accommodated in one of the ear-lier generations (PTX-18) by permitting the book to rotate against the resistance of a

inventive efforts. The surveys also showed that "over-the-road" trailers had a

ground, and this variation presented seri-

the legel maximum of 30 inches above the ous problems for Rits-Hite's aarly pre-1978

bars in terms of shape and height from the

suspension "flost" of 2 inches to 21/6 inches.

This is the system of the '841 patent and the Kelley Truk Stop. The '841 patent is entitled RELEASABLE LOCKING DE. VICE, was filed in the U.S. Patent and Trademark Office on May 4, 1981, and isafter the introduction of the ADL-100, Steven Hipp and Norbert Hahn developed the first of Rise-Hiee's MDL vehicle restreins. 25. In the spring of 1931, about a year sued on February 16, 1983. hold the carriage with the andosed hook above the ground when it was not in opera-tion. The carriage was actuated by move-

carriaga. The carriage was blased upward with springs stored in the dock leveler to

del carrings was developed and added, and the plyoted hook was then mounted in the

22. By late 1978, an adjustable trapezol-

spring.

28. The '847 patent is directed to a new to an adjacent stationary upright atructure such as a dockwall. The device of the '84'? surface of the wall. It has a hook assemframe for vertical movement between an upper operative position, where it will seapproach to a vehicle locking device or vehiele restraint for securing a parked vehicle patent has a frame vertically extending up the dockwall and secured to the exposed bly that has a follower mounted in the

> bulk of the IÇC bars whith its research had indicated would be encountered. The carriage also accommodated "float." This de-

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selectively permit the hook to be released further has a retaining means to retain the hook in Its upper operative position but to The device of the '847 patent lower inoperative position free of the vehele so that the vehicle can be driven away from the wall. The hook assembly has a horizontal shank portlon extending outwardly from the follower and a vertical cure the vehicle against the wall, to its lower inoperative position. hook portion.

springs which hold the slide so that the slide and the first part of the retaining means are upwardly blased even when not move, as a unit, several inches vertically downward when subjected to the forces of restraining a vehicle. As a result, the retaining means and the hook element ean means to move together downwardly against the biashs force of the spring to provide downward float. This is a desirbly engaged with the ICC bar. This downable feature, for without it, the device could become "jammed" by the weight of the truck pushing down on the hook assemward float is made possible by heavy dury an Inoperative position. Thereby, any bading of the vehicle, such as upon the entry alide, and the two parts of the retaining movement of the hook from an operative to of a forkill truck, will cause the hook, the part of the retaining means secured to it. A coacing complimental second part of the retaining means is carried by the hook and engages the first part to prevent accidental 27. In addition to the above-described basic structure, the device of the '847 patent includes a slide as a part of the fixed well-mounted frame, which is urged upwardly by a biasing force and has a first s truck being loaded.

employed instead of a ratchet. At column gated vertically extending devices, could be second part is a pawl, the description in column 2 starting at line 2 makes it very. particular embodiment. At column 3, line the description makes it clear that other equivalent devices, and in particular elon-While, in the preferred embodiment described in the '847 patent, the first part of the retaining means is a ratchet and the clear that the patent is not limited to this

iner, are the equivalent of the ratchet and payl shown in the particular embodiment 4, lines 9-10, the description makes it could be substituted for the pawl. From the tastimony of both experts, the Patent evidence, it is clear that the rack and pinion of Kelly and the threaded shaft of the Taylor, et al., reference, cited by the Examequally clear that other equivalent devices Office prosecution history, and the other described in the '847 patent.

ent (r. 1.2. xu) was actualized not a first visa also compared to the Model MDL-55 (PTX-128) and the Kelley Truk Stop (PTX-121) systems. The claimed elements in Claims 1, 2, 3, 112, and 13 of the '847 patent are found in the MDL, the MDL-65, and the Kelley Truk Stop. Mr. Kjell Erlandsson, who is Kelley's Vice President of Engineering and who tastified as an expert witness for Kelley at trial, questioned Truck Stop control box for the purpose of lowering the book to release it from enfluding that the Kelley cack and pinion releasably retained the book in its opera-tive position. The term is apt as indicated by the use of the term "Release" on the whether the word "releasably" was apt in ing this system. A physical MDL truck restraint constructed in accordance with the described embodiment of the '847 patent (PTX-20) was demonstrated at trial and 29. Recognishing the advancement in the art of vehicle restraints represented by the NDL Dock-Lok, Rice-Wite sought and obusined the '847 patent disclosing and claimgagement with a vehicle.

gular area from the smaller semi-chroular ing in a better range of engagement. Also, the vertically travelling hook assembly has a smaller sweep or clearance area moving into the operating position to reduce the traveling hook sasembly is a new departure from and an improvement over previous "pivoted hook" designs in part because the capture area available to engage an ICC bar by the book was changed to a rectanarea provided by the pivoting hook, result 30. The value of the invention of the model MDL and '847 patent is not limited to simplicity of construction or the possibility of manual operation. The vertically

RITE-HITE CORP. V. KELLEY CO., INC. Cite es 629 F.Bupp. 1042 (E.D.Wis. 1984)

This model was also demonstrated at the 나의 (PTX-123). of interference with things other than the ICC bar. In addition, the pivoting

Rite-Hite and is a current successful prodpatent and has been continercialized by uct of Rita-Rite. Over 1,800 of the MDL-55's have been sold, generating sales in the 33. Kelley did not dispute that this improved model MDL-55 derke uses the '647 millions of dollars.

> tion and continued to acknowledge these advantages at the trial. In addition, the

Model MDL can be used either with or

without a power source.

hook has a tendency to rotate away, whereas there is no such concern with the vertically moving hook assembly. Mr. Erlandsson made these observations at his deposi-

pawl of the specific embodiment of the 'b47 patent, Kelley obtains the same advantages ley's Truk Stop is additional evidence of the commercial success of the invention of the 1847 patent. While one can never be certain of the precise causal relationship of commercial success, aevertheless in this case. It appears from all of the evidence that the invention of the '847 patent was a 34. Similarly, the Kelley Truk Stop uses as the MDL-65's Initis! upward float. Kelrack and pinton instead of the ratchet and the '847 patent, but by using a motor and very significant factor.

F. The '847 Potent Was Commercialized

As the MDL-55

Rite-Hite had successfully tested production prototypes, was completing proG. Kelley's Development of Its "Truk Stop " Device

the hook is not initially apringblased up against the ICC bar. At the trial, the

the industry today call "upward" float, i.e.,

road" trucks deflect between about 1 Inch the vertical hook partion of the book assembly shown in the '847 pateint would accommodate the upward float of the ICC bars. The vertical hook portion of the hook

evidence established that normal "over the and 2½ inches, so that in most situations,

1931 came up with an improved version, the MDL-65. Although the basic device shown in the '847 patent had downward float, this unit did not have what people in

large production quantities of parts when

duction drawings and obtaining quotes on

Measrs. Hip, Hahn, and Swessel in mid-

vertically moving hook through its exami-nation and adoption of the Rice-Hite MDL-66 device and the related literature. eate that Kelley learned about and made its 35. The facus established at trial indi-

aspects of its vehicle restrain, does not negate the intringement of Rive filte's '847 patent. The very foundation of the patent system contemplates that users of a basic Furthermore, the fact that Kelley has procured U.S. Patent 4,488,326 (DTX-212), on patent will make improvements with time. Both Kelley and Rita-Hite did so here, but if anything, that enhances the dignity of 36. Kelley's industion of the vertically moving hook and the other elements of the '8t7 patent is indicative of the value, the importance, and the unobviousness of the invention claimed in the '947 patent the '847 patent 65, if the ICC bar rises as weight is taken increased the versatility of the vertically moving hook. The improved restraint handles not only "over-the-road" traffers but "city" trucks (a small percentage of the assambly could also, of course, have been made longer to provide additional compen-32 With the improvement of the MDLoff the truck, an initial bias is provided that can raise the vertically movable hook. This vehicles to be restrained), which generally

. .

sation for the "upward float" of the ICC

duction of the ADL-100 Dok-Lok sold by Rita-Hite in April of 1980. In June of 1980, Kalley's response to this first device of 87, Kelley's first knowledge of a works. ole vehicle restraint came with the intro-

have weaker springs and, thus, deflect more than the "over-the-road" trailers. This improved MDL device, the Model MDL-55 vehicle restraint, is disclosed and cisimed in U.S. Patent 4,443,150 (PTX-11).

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after Kelley's same engineers viewed, operated, and disassembled Rite-Hite's MDL-

49. Mesers, Bennett and Driear knew, or had available to them as of the end of

pending on the device (PTX-93).

Decomber 1981, everything that was possible for them to know about the construction of the Rite-Hite Model MDL-66. They

in June of 1981, Kellay was still working on Rite-Hite was to propose various communications devices (PTX-64). One year later, communications type devices (PTX-65).

38. In the late summer of 1981, about the time of the introduction of Rite-Hite's Model MDL-66, the Occupational Safety and Health Administration ("OSHA") is sued an instruction (PTX-30), the purpose of which was to allow the use of vehicle restraints without wheel chocks.

straints could be coupled with sales of Rita-Hito dock levolers which would otherwise be sold by Kelley (PIX-36). This was a double injury in the market place. As a result, the representatives found that their ability to sell dack equipment was ham-pered by the presence of Rite-Hite vehicle line) that gates of Rite-Hite's vehicle re-89. At about this same time, Kelley's sales representatives began expressing increased concerns to Kelley (which was atill without a vehicle restraint in its product

40. Kelley had no plans for a physical restraint at the time of the OSHA instruccommunication. Knowhy of the long-standing problem, Kelley had falled to rection. Rather, Kelley's focus was still on ognize the solution. estraints.

ately on a vehicle restraint to compete against the Rite-Hite Dok-Lox and to cost less than \$1,000 (PTX-52). During the course of this program, Kelley personnel referred to its vehicle restraint as "Kelley's On Friday, November 13, 1981, John Hogseth (Kelley's Vice President of Marquesting Mr. Drient to begin work immediketing) sent a memo to Joseph Driear (Kelley's Director of Engineering) formally reversion of the Dok-Lok" (PTX-36).

and a memo at the bottom in Mr. Driege's On the following Monday, Noveme ber 16, 1981, Kogaeth's memo (PTX-32) handwriting of the same date indicates that Driear would comply with Mr. Hogseth's requests but that the following were was marked "received" by "Enginearing," Ş

(a) Engineering needed a copy of the OSHA regulations that sanction the use nitially required:

of vehicle restraints (this was done four days later as noted below);

(b) The forms! "request" for the product development program should be submitted (there is evidence that this was, apparently, never donel;

priority had been given to obtaining addilional information on Rite-Hits's product, A meno and monthly report dated January 14, 1982, from Mr. Driear to Mr. Kuhns PTX-53), also generally summarizes the work done on project 916 during December

> the operating instruction sheet for the MDL-55 had been received by Engineerment to a memorandum from Hogseth (PTX-81), but other literature, such as an (e) A copy of the "complete" Rile-Hite ing on September 17, 1981, as an attach-ADL-100 booklet, was not provided until Regardere should be sent to Engineering later); and

of 1981 as follows: "Conceptual work on truck/trailer anchouing device proceeded

slowly due to higher priority projects." Thus, at the end of 1981, Kelley was still without a defined concept or aignificant

> (d) A sample of the Rite-Hite product should be made available to Engineering (this was done on December 80, 1981, as described below).

ents, including the patent claiming the Model ADL-100 restraint (with a pivoting hook), and made notes regarding the claims of the patents (PTX-28). His notes all portray, among other things, the "pivoted hook" configuration shown in the Rite-Hite 48. On the next day, Mr. Driear carefully reviewed copies of certain Rite-Bile patpatents.

marked "patent pending" (PTX-93), no search or study was made or opinion given 44. About that time, Kelley's patent atand they discussed the Rite-Hite patents. A)though the Model MDL-65 devices were on what patents might issue on the MDLcorney, Olenn Starke, visited Mr. Dricar,

was assigned the project number "915" and was assigned to David Bennett, a young enginest working under Mr. Driest's surpervision. Mr. Bennett is now decessed. 46. Also, at about this time, the vehicle restraint development project of Kelley Kelley continued to work on communications type systems (PTX-65).

tion indicates that it was received by Keiley's engineering department on Friday, 46. A date stamp on the OSHA instruc-November 20, 1981 (PJX-30).

47. On December 29, 1981, Mr. Bennett wrote a memo in longhand setting forth the

60. On the next day, Robert Kuhns sent a memo (PTX-56) to Mr. Driese and a copy of a publication draft of a blodel ADL Service Bulletin that Kelley had obtained on May 5, 1980, stating: RITS-HITE CORP. V. KELLEY CO., INC. Cite as 629 F.Supp. LO42 (E.D.Wit. 1986) device" (PIX-38). The memo sets forth a 'work schedule" for the "trailer anchoring If any, progress had been made in the design work up to this point, and a high number of tasks which indicate that little,

With this (I think George Zehorik has the original) and the "Tuf-Seal Mechanical [MDL Dok-Lok], we should be able to davice, which embodied all of the features sketches that have been found of Kalley's 51. By January 12, 1982, HOVE.

claimed in the '847 patent claims 1, 2, 8, 8, 12, and 18, were complete. These first

of Rico-Hite's device described above and

tually commercialized as the Truk Stop.

sketches show the product that was even

development of vahicle restraint to compete

with Rite-Hite.

quests made by Rite-Hile's counsel before algned and witnessed by Kuhns and Driear. Furthermore, the evidence established at trial indicates that Kelley's practice is to have the first description or sketch of an invention witnessed so as to corroborate the Truk Stop device were not made by Kelley's engineers until about two weeks sketches and work. However, Kelley was unable to produce any earlier sketches showing a device similar in any way to its Truk Stop, notwithstanding numerous reand during the trial. In fact, on January 16, 1982 (PTX-57), these sketches were the date and provide credible evidence of the date of the Invention. Thus, based 62. At the trial, Kelley claimed that these danuary sketches were not the earliest sketches and that they had previous upon this evidence, the earliest sketches of restraint was finally installed at Kelley's Tut-Sasi aubsidiary (PTX-129). An hour after the installer left, the Kelley engiaeers, including Mr. Driear, began inspect ing, disassembling, measuring, operating, and photographing it. Polaroid photographs of the device were taken then and later placed on file in Kelley's engineering division (PTX-22 through PTX-29). These 26), the disassembled vehicle restraint as well as with a tape measure (PTX-24 and tag on the device (PTX-26). At that time these tags indicated that patents were 48. On December 30, 1981, the previously ordered Model MDL-55 Dok-Lok vehicle photographs, discussed at trial, show Mr. Driese at the site of the installation (PTX-PTX-29) next to certain parts, One of these photographs shows the serial number

53. By February 23, 1982, the first pro-totype of Kelley's Truk Scop rescraint was Photographs of this prototype (PTX-43) were taken by Kelley specifically for the complete, operating, and ready for testing. purpose of establishing this date.

port, and a ratchet and pawl assembly that

operates by relative movement to position the book on the slide, retain it in the position, and parmit downward float of the skide, hook, and recaining means as a unit

a channel in the support for a slide, a book mounted for vertical movement in the sup-

knew the fact that it his a vertical support,

54. On March 1, 1582, the design of the Truk Stop product was relassed at a "show and tell" demonstration, and by about July i, 1982, the product was available for intro-

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luction to the representatives and producion, shortly after the date projected by Kelley in the fall of 1981 (PTX-82).

en's great deal of thought to the question Hite's vehicle restraint, and that Kelley had made little progress in its own efforts to come up with a competing device until after its engineers had the benefit of the MDL-55 Dok-Lok brochures and inspected, tested, and dismaniled an actual MOL-65. The evidence at trial, both through the testimony of Relley's personnel and its documentation, shows that Kelley had givof a product that would compete with Rite-路

mercial impact of the Rite-Hite Dok-Lok restraints, the need for such device, and the response of Kelley. Mr. Kuhns, President of Kelley, during a private showing of demonstrated it side by side with Ritz-Hitze MDL-65 and explained the relationship becleking, a Kelley sales representative in Minneapolis in 1981 and 1982, was uncontroverted. That evidence showed the comthe new Truk Stop in the spring of 1982, 56. The testimony at trial of Robert Enween them to Mr. Englaking.

Kelley Has Failed to Prove That the 247 Patent Is Involved

that Kelley has failed to carry forth its burden that the patent la invalid and holds claims in suit of the 'Bif patent, stating that the cleimed combination is obvious and shown in the prior art. The Court finds that the claims in suit are not invalid. Kelley has assarted invelidity of the

The Claimed Invention is Novob-21013 ä

copying, and unexpected results. Based upon the evidence coupled with an analysis cialms are obvious over the prior art. On this issue the Court has (1) determined the acope and content of the prior art, (2) ascertained the difference between the prior art and subject matter claim, (3) datermined the level of ordinary skill in the art, and (4) given consideration to the objective eviof nonobviousness such as long-felt need, commercial auccess, failure of others, Kelby his alleged that the asserted dence ထွ်

of this Indicia, the Court finds that the subject matter of chims 1, 2, 3, 8, 12 and 13 are nonobrious.

to Mr. Hipp, et al., for Device For Releas-ably Securing A Vehicle To An Adjacent earlier, resulted from the Ribe-Hite vehicle restraint program. The '621 patent teachpatents, which were before the Examiner. Support, all of which were cited by the Examiner, All of these patents, discussed aminer, is more pertinent than U.S. Patent 4,264,259 (PTX-1-e), lasted to Mr. Hipp for a Releaseable Locking Device; U.S. Patent 1,267,748 (PTX-1f), isoued to Grunewald, et al, for a Releasable Locking Mechanism; and U.S. Patent 4,208,181 (PTX-1d), issued 748, 67 161 thony, et al., for a Rolesseable Locking Device and which was not before the Exart references during the trial. Many of the Court finds that none of these are more Along these lines, the Court rejects Mr. Erlandsson's testimony that U.S. Patent (282,621 (PTX-1-g), which issued to An-69. Kelley set forth's number of prior these references were before the Examiner and some of them were not. With respect to the references not before the Examiner, pertinent than the art defore the Examiner. es no more than the '259,

bination to secure a parked vehicle against ed use of that element in the claimed coma stationary upright structure such as a pawi. Kelley put in no evidence that any of the ratchet and pawl references auggestdock wall. Thus, none of the prior art es is based upon Kelley's misaporehension of the cisims as being specific to a ratchet and pawl as an element of the claimed combination. None of the claims is limited to a ratchet and pawl, and Rite-Hite never contended it had invented a ratchet and 60, . The plethore of references set forth by Kelley in general fall into two catego-The first category contains ratchet and pawl references shown in a montage (DTX-202), The reliance on these referenctems to DTX-202 is of significance in isane of obviousness. ries.

The second category of prior art is that shown in DTX-201. These references all relate to some type of vehicle restraint, 뎍

RITE-HITS CORP. v. KELLEY CO., INC. Cita as 629 F.Bupp. tod7 [E.D.Wie, 1986)

qualified engineer) suggested by Kelley's expert witness, Mr. Erlandsson, this Court finds that this invention would have been skilled in the art at the time of the invendefinition of the higher level of skill 64. Even if this Court adopts nonobvious, None of those references suggest going to but none shows the claimed combination of the 1847 patent. The closest references to the asserted 'Sti patent claims are the of Rita-Hita's development team. he system of the '847 claims with a horfcontal hook shank mounted to a follower to a vertical support or with a bissed slide and

65. This flading of nonobviousness is further supported in light of the objective the '847 patent provided a solution to the long-felt need that escaped the industry, including Kelley, until after Hipp and Kahn made the invention and Rite-Hite began to sell the invention of the '849 patent as the that time, Kelley concentrated its efforts on communications devices and not physievidence of unobviousness. For axample, cal restraints, and even when charged with coming up with physical restraints, it was Model MDL-55 vehlele restraint. enable to do so. book. Nor do those references suggest a retaining means for the vertically movable and retaining means to support the hook fixed in the slide, all vertically movable as ilda, a vertically movable hook in the slide Hite's '259, '161, and '748 patents showing pivotally mounted hooks on a vertical wall. The Examiner was correct in Inding the '847 claims unobvious and patentable thereover, While each single element of the claims may have precedent in the prior 62. The examiner had the best of these

references before him; that is,

a unit to provide float.

came the Truk Stop, including a witnessed drawing (PTX 67) and other subsequent prototype, which was made in February of 1982 (PTX 43). Such evidence (urther supphysical restraint on its own prior to receiv-55 installed on the dock of its Tuf-Seal subsidiary on December 30, 1931. Kelley's the Rite-Hite installation was completed at Tuf-Senl, were inspecting, operating, photovelopment of the truck restrains that be-Indications of the construction of the first 66. A further indicium of nonobriousup with a solution or a construction for a ing the Rite-Hite MDL-66 literature in the late summer of 1981 and having the MDLofficers and engineers, within hours after graphing, disassembling, and measuring the Rice-Hire MDL-65. Within a few weeks thereafter, the Kelley documentary records show the first evidence of the deness is copying or imitation by competitors. In this case, Kelley was not able to come ports the argument of unobviousness. plaintiffs' technical expert witness Professor John Straft who stated that the level of skill is relatively bow, and that a person protection on what they called the Panic 1960's. The Court adopts the definition of the combination of elements set forth in the claims of the '84' patent asserted here was novel. It proved a workship, efficient, There was some disagreement belevel of ordinary skill in the art in the early was not suggested in any reference. Kelfrom inadvertent and accidental withdrawals of trucks from loading docks and the as early as 1966 when they sought patent tween the parties at the trial about the art, as is true in most mechanical patents, and inexpensive solution to a very long-felt need in the dock equipment industry and ley was well aware of the serious safety hazard, including injurles and even deaths, need for a practical solution since at least

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Stop (DTX-183-8). છું

er possible to relate commercial success to one specific cause, the lavantion encompassed by the '847 patent is one significant cause that has resulted in the commercial success of both the MDL-55 of Rite-Hite 67. As mentioned earlier, while it is new and the Kelley Truk Stop

with several years of design experience in

the steel and machinery art would typify the ordinary skill. A few of the workers in

the art, usually managers, might have en ongineering degree. With this definition,

the Court finds that the cialmed combina-tion would not have been abvious to one

68. Kelley claims that the commercial Rice-Hite product, the MDL-56, also incorporated an improvement over the basic disconsionate of the '847 patent, It is, of course, axiomatic in the patent law that one cannot as the '847 patent, by making certain improvements on the basic structure, such as the addition of a motor drive or means of providing locreased flost as compared to the structure of the '847 patent, Similarly, the fact that Rice-Hile's commercial produces as the passent an improvement that came after the basic invanition of the '847 patent in no way deutscts from the commercial in no way deutscts from the commercial in no way deutscts as the structure.

b. Kelley Hos Failed to Prove Antidipation

69. Kelley has also alieged that the beserted claims are shown by the prior art, although its evidence was vague on whether it alieged an anticipation under any section of 36 U.S.C. § 102. The Court finds that Kelley has failed to carry forth its burden on this allegation.

distinctly from the chaimed invention that it tion, and operation vary so drestically and cannot be found that these devices show suggestion of an apparatus for restraining right structure. No single reference introduced by Kelley anticipates the claimed invention. Evan if these devices include each of the claimed mechanical elements, their structure, interrelationship, applicathat prior art, such as U.S. Patent 621,858 issued to Schwarz for Easel and a 1977 ual, show the claimed combination in the vices do not relate to the patented invention. They are far affeld and offer no a parked vehicle against a stationary up-Ford Automobile Jack and operating manasserted claims. Yet these prior art de-70. In particular, at the trial, Kelley's echnical expert, Mr. Erlandsson, stated

1. Kelley's Infringement of the '847 Pot-

71. Infringement of Claims 1, 2, 3, 8, 12, and 13 of the '84T parent by the Kelley

demonstrations of various models. In par-ticular, Professor Strait showed how the the drawings of the '847 patent (PTX-10 and PTX-10-A), the Model MDL (PTX-19), the Model MDL-55 (PTX-123) (the lm· proved Model MDL, which has met with commercial success in the marketplace through sales of over 1,800 units), and Kel-10) and Kelley's device (PTX-14) as well as asserted claims of the '847 patent read on charts of the '847 patent drawings (PTXfessor Strait, explained the relationship at the trial with the assistance of colored mark "Truk Stop" was proven at trial: To facilitate reading these claims, they were broken down at trial and compared with features and elements of the Kelley device. Rite-Hite's technical expert witness, Provehicle restraint markated under the tradeley's Truk Stop device (PTX-21).

92. Cisims 1, 2, 8, 8, 12, and 13 of the '647 patent, as asserted against Kelley's product and in the form as relied upon by the pisiptiffs at trial in PTX 11, 12, and 13, are as follows: CLAIM 1
A releasable locking device for securing a parked vehicle to an edjacent relatively stationary upright structure, said device comprising

(a) a first means mountable on an exposed surface of the structure, (b) a second means mounted on said first (b)

 (b) a second means mounted on said first means for substantially vertical movement relative thereto between operative and inoperative modes.

(c) the location of said second means when in an inoperative mode being a predetermined distance beneath the location of said second means when in an operative mode and in a non-contacting relation with the vehicle,

efection was to removed.

(d) and third means for releasably retaining said accond means in an operative mode.

(e) isid second means including a first section projecting curtwardly a predetermined distance from said first means and the exposed surface of the structure, one

rite-hite corp. v. Kelley co., inc. Cie Listeurp. Ini (ed.Wil. (sei

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ited CLAIM 8

on- The device of claim 1 wherein the third
g a means automatically retains the second
ites means in an operative mode.

The device of claim 1 wherein (a) the first means includes elongated upright guide means,

(b) and the first section of the second means includes guide-engaging elements earlied on the one end of said first section and continuously maintaining said first section in an outwardly projecting relation with respect to said first means. CLAIM 13

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structure, said device comprising

(a) a first means having a first member (keelly mountable on the structure and a second member mounted on said first member for limited aubsantally vertical relative movement, said second member being upwardly biased to assume a normal reat position.

(b) second means mounted on said first means for gubernfully vertical movement relative thereto between operative and inoperative modes.

(c) the location of said second means when in an inoperative mode being a predetermined distance beneath the location of said second means when in an operative mode.

operative mode, (d) and third means for releasably retaining said accord means in an operative

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(e) said third means having a first element carried by the second member of said first means, and a complemental second alement carried by said second means, said first and second elements coaching with one anabher to prevent movements of said second means from an operative mode to an inoperative mode, (f) said second means including a first section projecting outwardly from said first means, one end of said first section being guided thereby for selective releting being guided thereby for selective releting the movement in a predetermined substantially vertical path, and a second sec-

on said first needs for selective independent first means for selective independent movement relative thereto along a means auto predetermined substantially vertical means in a part, and a second section extending and CLAIM 12 guisarly upwardly from said first section. The device and being spaced outwardly a substantially fixed distance from said first upright guilt fixed distance from said first upright guilt means and the exposed surface of the (b) and the

(f) said second means, when in an operative mode, being adapted to interioristry. Is engage a portion of the parked validle disposed intermediate to second section and said first means.

structure.

(g) said second means, when in an inoperative mode, being adapted to be in a lowered monlocking relation with the parked vehicle.

A releasable tocking device for secuting a parked vehicle to an adjacent upright

AIM 2

The device of claim 1 wherelo (a) the first means includes a first member fixedly mountable on the structure exposed aurface and a second member slidably mounted on sald first member for limited independent substantially vertical relative movement, (b) said second member being upwardly bissed to assume a normal elevated rest position with respect to said first member, (c) said second member and said second and third means being movable as a unit downwardly from said normal rest position only when a depressive external force exerted on said second means, while the latter is retained in an operative mode, exceeds the bissing force applied to said second member,

CLAIM 3 The device of claim 2 wherein

(a) the third means includes a first elemant carried by said second means and coatting with a complemental second element carried by the second member of said first means to prevent movement of said second means from an operative mode to an inoperative mode.

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Pialon & Worm

Paw

Orean

Rack

Ratchet

Purple

Light Red Dark Red

Spring

쭚

BIASING FORCE

Slement

Second

Hook Assembly

Hook Aesembly

Yellow

Yellow

SECOND MEANS

THIRD MEANS

First Element

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RITE-HITE CORP. V. KELLEY CO., INC. CILL 423 FSupp. Int. (Ed. Will 1986)

TRUK

PATENT

RTIE-HITH COLOR

KELLEY

CLAIM PART

Frein

Frema

Brown

PIRST MEANS

First Mamber

Second Member

Silde

Side

Orange

Light Blue Blas

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erative mode, being adapted to be in a nonlocking relation with the parked vedisposed intermediate the second section ly engage a portion of the parked vehicle (h) said second means, when in an Inopextending angularly upwardly from (g) said second means, when in an operafirst section and being spaced outtive mode, being adapted to intertocking. wordly from said first means,

and said (Irst means,

ative position

depressive externs! force exerted on said second means, while the latter is retained in an operative mode, exceeds the biasing Upon hearing all of the evidence means being movable downwardly from the normal rest position only when B force applied to said second member. (i) the second member of said first hick.

tical movement between an upper operative position where it will secure the vehicle Strak showed that the Kelley device, which is directed to a releasable locking device or hiele to an adjacent upright, structure, such as a dockwall, has a frame vortically extending up the dockwall and secured to the exposed surface of the wall, a hook assembly slidably mounted in that frame for verpatent are infringed by Kelley's device. vehicle restraint for securing a parked vepresented at the trial, including the expert testimony of both Professor Strait (Rike-Hite's technical expert) and Mr. Erlandsson Kelley's Vkc President of Engineering and its technical experts, the Court finds that Claims 1, 2, 9, 8, 12, and 13 of the '847 74. In particular, . Professor

ley device also has a means in the form of a rack and pinlon which operates with a teversible motor to retain the hook in its upper operative position but to selectively permit the hook to be released to its inaperposition free of the vahicle so that the The hook assembly of the Kelley device also has a horizontal shank portion, a vertiest hook partion, and a follower that moves in the frame between the upper operative vehicle can be driven away from the wall. against the wall and a lower inoperative and lower inoperative positions.

torce of a truck being loaded providing downward "float" Upward float can also When the ICC bar moves upward, the motor la activated and the book moves up with live position. As a result, the Truk Stop will move downward when subject to the be accommodated by the Truk Stop unit. pinion, is carried by the hook and engaged the rack to prevent accidental movement of the hook from an operative to an inoperaframe, which is urged upwardly by a blasmental part of the retaining means, the Strait showed that the Truk Stop unit also includes a slide as a part of the fixed ing force in the form of a gas spring and has one part of the locking means, namely, the rack accured to it. A coacting comple-75. In addition, at the trial Professor the ICC bar.

76, During Mr. Erlandsson's cross-examination, the following chart (PTX-136) was developed with respect to Claims 1, 2, 8, 8, and 12:

is operative position. Patumbo u. Don-Jop Co., 762 P.2d 969, 918 (Fed.Cir.1985). To hold otherwise would mullity § 112. D.M.I., Inc. u. Deere & Co., 755 F.2d 1670, graph states that the patentes is entitled to to interpret these functional tains, reference must be made to the last claim covering the means described in the specification and equivalents that perform the stated function. The rack and pinion is interchangeable with a ratchet and pawl and is the class equivalent of a ratchet and pawl for releasably retaining the hook in pect to interpreting means plus function guage. This is not the proper test. paragraph of 35 U.S.C. § 112. That para-1674 (Fed, Cir. 1986).

guage, is buttressed by the fact that other ciaims in the '347 patent, which are not asserted have, specifically recite a ratchet and pawl. To limit the broader claims, in the way Kelley asked this Court to do, 79. This finding with respect to the scope of the "means plus function" lanwould go against a rational construction of the claims.

80. Furthermore, the claims are not limlted to a manual device because only one of

	ne lang	2
elation	n elements and the	
ect corr	lements	
냚	claim e	j.
chart shows the	1847 patent claim	etemen
char.	Ş	ğ

Hite patent is to provide a device that does not require an electrical power source to operate, the chains are thereby limited to sither of Xelley's arguments persuasiva. ley device. Kelley argued further that because a secondary objective of the Ritemanual devices. The Court does not find reversible motor that is part of the retaining means. Kelley argued at the trial that its use of a rack and pinion, where the avoids infringement of the asserted claims because the third means for releasably retaining the book in an operative mode as recited in the cisims did not cover the Kelpinion is "driven" up the rack by a motor, The Truk

apply the doctrine of equivalents test with asserted here are not, in any way, limited to a ratchet and pawl. In fact, "means alva function" language is used which is means for releasably retaining said second means in an operative mode." During the rial, Kelley's expert witness continued to directed to a desired result, i.e., "third 78. First the broader claims that are

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pared to the Prior Art

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cifically recite mannal operation, and thus such a limitation cannot be read into the many objectives set forth in the specification is to provide a device that is free of an steersteal source. Nonasserted claims apesserted claims.

trine of equivalents. This is so because the Kelley device performs the same function in substantielly the same way to achieve result as the claimed subject matter of the '847 patent. filnges the assetted cisims under the doc-Court finds that Kelley's device In-31. Even without literal infringement, substantially the same

an infringement search beyond the six put-ent combers that Kelley found listed on the Kelley never obtained an opinion from its counsel on the probability or possibility of by its Truk Stop restraint. Furthermore, did Kelley ever cause its counsel to make an infringement search to determine what patents might exist or might be intringed Rite-Hite device's serial number lags. Nor that old not use a pivoting hook in order to The '847 patent did not issue until almost a year after Kelley began to market its Truk Stop truck restraint. Kelley hever made restraints, and Kelley received a written Hite patents then issued were limited to a piroting hook. Sased on this opinion, Keltey proceeded to develop a truck restraint svoid conflict with the Ribe-Kite patents. 82. At the time Kelley undertook the development of its truck restraint, it reopinion from counsel that all of the Biltequested its patent counsel to make a searth of sll Rite-Hite patents dealing with truck patents issuing on the MDL-65.

The Unsair Competition Claims and Counterclaims

motion picture having been found to be misleading in its depiction of Kelley's and Truk-Stop promotional motion picture, that On March 16, 1984, the Court preliminarily enjoined Kelley from using its Rite-Hite's truck restraining devices.

it with a film loop which is acceptable to 84. Based on the testimony of Robert Kuhns that Kelley has taken the original motion picture off the market, has replaced

this Court found misleading, the Court finds there is no need for any injunctive or using the original motion picture that relief at this time and that the preliminary Rice-Hite, and has no intention of showing hjunction may be dissolved.

Structural

Products Co., 749 F.2d at 114.

nonobylousness.

lish any need for other injunctive relief or 85. At trial, the partles introduced eviterclaims of unfair competition against each other. This evidence falled to estabmoney damages on the part of either party. dence on their respective claims and coun-

CONCLUSIONS OF LAW

Source of Applicable Law

objective evidence of nonobviousness, e.g.,

is proper. The law applicable here is that the Federal Circuit and its predecessor courts, the Court of Customs and Patent Appeals and the Court of Claims, South Corp. v. United States, 680 F.2d 1368, parties and the subject matter, and venue of the United States Court of Appeals for This court has jurisdiction over the 1369, 215 U.S.P.Q. 657 (Fed.Cu.1982).

L. Validity of Patents

Corp. a. Computervision Corp., 132 P.2d P.Q. 1264, 1269 (Fed.Cir.1984). This statutory presumption of validity places the burby clear and convincing evidence on the party asserting invalidity. Perkin-Elmer 834, 221 U.S.P.Q. 669, 674 (Fed.C)r. Sirucjural Rubber Products Co. e. Park Rubber Ca, 749 F.2d 107, 714, 223 U.S. den of proving facts establishing invalidity novelty, conobviousness, and utility—each of which are presumed to be present. this presumption attaches to each claim independently of the other claims. Jones is presumption encompasses presumptions of ent laws (36 U.S.C. § 282) explicitly states that a patent shall be presumed valid, and Hordy, 727 E.2d 162d, 1528, 220 U.S.P.Q. 1021, 1024 (Fed.Cir.1984). Moreover, this 89, Section 282 of the United States pat-1984), care denied -- U.S. 187, 83 L. Ed.2d 120 (1984).

RITE-KITE CORP. P. KELLEY CO., INC. Citt sa 629 P, Supp. 1062 (E.D. Wie. 1936)

"art" consisted of the work of Rite-Hite's development team as exemplified in Rile-Hita's earlier patents 88. It is a condition of patentability that Invention be nonobvious, 95 U.S.C.

leve) of one of ordinary skill; (2) the types of problems encountered in the art; (3) the prior art solution to those problems; (4) the rapidity with which innovations are made, Not all of these factors need be considered factors may predominate or are given more [2] 91, Pactors that are considered in determining the level of "ordinary skill in the art" may include: (1) the educational and (5) the sophistication of the technology. weight in a particular case. Environmenin every case, and often one tal Designs, 713 F.2d at 696-97. prior art; (2) the level of ordinary skill in the pertinent art at the time the invention ousness/nonchviousness under § 103 of the patent laws, that factual inquiries be made into: (1) the scope and content of the was made; (3) the differences between the 383 U.S. 1, 17, 66 S.C., 634, 693-34, 15 L.Ed.2d 545, 148 U.S.P.Q. 459, 467 (1966). ent validity carries with it a presumption of Rubber the Court mandated, in determining obvi-The statutory presumption of pst-89. In Graham v. John Deere & Co.,

in the art. Furtharmore, it is irrelevant in er aspects of the claimed invantion are well scribed as a "combination patent" or a 'combination" of old elements. Jones, 727 F.2d at 1528. There is absolutely no basis in the law for treating combinations of old elements differently in determining patentablity. Fromson, 755 F.2d at 1556-58. that difference may serve as one element in "difference" may appear to be alight, but it determining obviousness that all or all othmown, in a piecement manner, in the act, since virtually every patent can be de-92. Additionally, although it is proper to determining the obviousness/nonobviousness Issue, it is improper merely to considcan be the key to success and advancement note the difference existing between the claimed invention and the prior art, because er the difference as the invention. of ordinary skill in the art to the spring of s. The Invention As a Whole Com-11] 90. Section 103 requires the consideration of whether the Invention would or Perkin Elmer Corp., 132 F.2d at 834; Jones, 727 F.2d at 1527, 1629–31; Branon U.S. 1043, 104 S.Ct. 709, 79 L.Ed.2d 173 (1984). The Invention of Claims 1, 2, 3, 8, 12, and 13 of the '847 patent would not have been obvious as a whole to a person claimed invention and the prior art; and (4) long-felt needs, commercial success, failure of others, copying, and unexpected results. mental Designs, Lld, u. Union Oil Co., 713: F.2d 698, 695-97, 218 U.S.P.Q. 865, \$

dented,

367-69 (Fed.Clr.1989), cort.

the desirability of the combination or the inventor's beneficial results or the advantage to be derived from combining the teachings. Fromson, 165 F.2d at 1556; In the disclosures or teachings of the prior art can be retrospectively combined for purtion obvious unless the art also suggested re Sernaker, 102 F.2d 989, 995-96, 217 perato, 186 F.2d 625, 657, 179 U.S.P.Q. 730, (3) 93. Moreover, the mere fact that poses of evaluating the obviousness/nonobviousness issue does not make the combiria-U.S.P.Q. 1, 6-7 (Fed.Cir.1983); In re

Ina, 721 F.2d 1540, 220 U.S.P.Q. 303, 309 (Fed.Ch.1833), cert denied, — U.S. —, 106 S.CL 172, 83 L.Ed.2d 10T (1984). In this case, there was no real vehicle retroduced its that Dok-Lok restraint. The to one of ordinary skill in the art to which that subject matter pertains at the time the Fallure to consider the cisimed invention "as a whole" would be an error of law. W.L. Gore & Associates Inc. v. Garlock, invention was made. Perkin Elmer Corp., 732 F.2d at 894; Jones, 727 F.2d at 1529. would not have been obvious "as a whole" straint art or industry when Rite-Hite

PAGE 34/43 * RCVD AT 8/13/2004 10:02:14 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/1 * DNIS:8729306 * CSID:412 566 6099 * DURATION (mm-ss):19-14

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132 (CCPA 1973). There is no such suggestion in this case.

nation of features proviously used in two separate prior devices. The Court ex-Ch.1984), a patent for hydraulic scrap shears was held valid and nanobylous even though it specifically stated in the specification that it disclosed and claimed a combi-GUBH v. American Hoist and Derrick 94. In Lindemann Maschinenfabrik Ca, 730 F.2d 1462, 221 U.S.P.Q. 481 (Fed. plained:

rigidis massive scrap. There was nothing whatever of record, therefore, to support the district, court's statement that the claimed machine possessed "saother known procedure operating in a known mannar to produce a known result" or its conclusion that Lindemann (the inventor) knew...that a small sidewall ram could most economically process large serap. Nothing in the references alone or together suggests the claimed invention as a solution to the problem of crushing Andemann, 730 F.2d at 1462.

chaims is nowhere suggested and is a nonexistence at the time of the invention, the fact remains that the combination of these elements for the purpose as set forth in the obvious advance in the art of vehicle re-95. Thus, even if all the elements recited in the claims of the '847 patent were in

b. The Advance in the Art Provided by the Invantion in Suit

more Festener Corp. a. Illinois Vod Works, Inc., 739 F.2d 1673, 1675-76, 222 U.S.P.Q. 144, 746-47 (Fed.Cir.1884), cort. dented, — U.S. —, 105 S.Ct. 2139, 85 ham may be the most perdinent, cogent, probative, and revoaling evidence available to sid in reaching a conclusion on the obvi-L.Ed. 498 (1985). In fact, such evidence of the objective considerations must be considered as part of all the evidence in all In re Piasecki, 745 F.2d 1468, 1471, ourness/nonobylousness issue and is of substantial alguiffeance in this case. Sim-[4] 96. The objective evidence of nonphyiousness discussed by the Court in Gra-3869

223 U.S.P.Q. 785 (Fed.Cir.1984). teste include:

u. American Hospital Supply Corp., 634 P.2d 89, 93, 190 U.S.P.Q. 297, 400-01. [th. Or.1976]; Rex Chainbell, Inc. v. (1) Did the patented invention fulfill a long fest need in the industry to which it General Kinomatics Corp., 363 F.2d 836, 837, 160 U.S.P.Q. 919, 320 (7th Cir. applied? Ortho Pharmaccutical Corp. 1966).

(2) Did others by and fall to meet the need that the lavention ultimately satis-

(3) Did the patented invention meet with substantist success upon its bitro-duction to the market? Rest Chairbell, Ca 'n Anchor Hocking Glass Corp., 862 P.2d 123, 124, 150 U.S.P.Q. 1, 2 (7th Inc., 383 F.2d at 837; Continental Can Chr.1966),

AMP, fine. a. Moles Products Ca., 829 F.Supp. 1884, 1871, 170 U.S.P.Q. 2, 7 (N.D.III.1971). (4) Did the accused infringer recognize that the invention was truly meritorious?

97, Evidence may often establish that an invention which appeared at first blush to have been obvious was not in view of the secondary considerations. Fronson, 155 E.2d at 1556. When a structure such as the '847 patent goes undiscovered for years and then enjoys substantial commercial success, there is strong evidence of unobvi-OUR DESS.

'847 patent satisfied a long and widely-felt need, and Rita-Elic anceaded where others, including Kelley prior to copying, had falled, Alles Pouder Co. a. E.L. DuPont de Nemours & Co., 150 F.2d 1669, 1674–76, 224 U.S.P.Q. 409 (Fed.Clr.1984); Larg u the time Rite-Hite's claimed invention was made, no known device accomplished the years. Rite-Hits's invention claimed in the Presonn Corp., 646 F.Supp. 933, 945–46, 217 U.S.P.Q. 839 (D.Del.1982); Tracor, Inc. u Hewiell-Packard Co., 519 F.2d 1288, 1806, 188 U.S.P.Q. 468 (7th Cir.1976). At .98. One cannot escape the fact that the solutions to dock hazards by preventing vehicle separation sluded the industry for

RITE-HITE CORP. 4, KELLEY CO., INC. Cite as 629 F.Supp. 1042 (E.D.Wib. 1936) results in a similar manner. Rite-Kite's invention, in fact, astisfied this par-

Inc. v. Mine Sofety Appliances Co., 211 U.S.P.Q. 1126, 1149 (C.D.Cal.1981). Indeed, the instastion and copying by Kelley was strong evidence that Kelley believed that invention by in the Rite-file product.

Ackermans v. General Motors Corp., 202
F.2d 642, 646, 98 U.S.P.Q. 231 (4th Cir.
1958), cert. denied, 346 U.S. 996, 73 S.C.. 1139, 97 LEA 1403 (1963). ticular need in a unique manner. That is 99. One of the advantages of Rito-Hite's Invention is that it uses a simple means to maintain the yestraint in the clevated, operative position. The '847 patent discloses a ratchet and pawl as one means

lavention. Jones, 727 F.2d at 1581.

101. A further indicium of nonobvious-ness was the evidence that Rite-Hise's inasserted daims of the '847 patent (PTX 31), There is no question that a substantial cause of this commercial success is the claimed configuration. Fromson, 765 F.2d et 1566-68; Magnavox Company v. Chico. 20 Denamic Industries, 201 U.S.P.Q. 26, vention has also had considerable commercial success. Rite-Hite has soid well over 1,800 MDL-66 restraints falling within the go Dynamic Industries, 261 U.S.P.Q. 27 (N.D.III.1971). But none of the asserted claims recite a ments coacting in a novel and unabylous combination went unrecognized for years well known. This supports the unobviousratchet and pawl or even just hook retaining means. Rather, a combination of eleas well as racks and pinion gears, were ness of the patent in suit. Jones, 727 F.2d at 1530. If anything, Kelley's reliance on to retain the hook in its upper position. manner are recited. The advantage of the by the industry, though ratchets and pawis,

N. The Prior Art Does Not Show the Claimed Invention

> pawl combinations, shows that no one be-tore Ribe-Hite, even with the art before him, ever thaught of the combination of the

patent for its Panic Stop using ratchet and

as an automobile (ack, as well as its own

eartler devices in the vehicle industry, such

uied, 465 U.S. 1026, 104 S.Ct. 1284, 79 LEd.2d 687 (1884). The decermination that a claimed invention is "anticipated" under 102 is a factual determination. Linda-(6,7) 102. To assert that a patolic a party must demonstrate identity of inven-113 F.2d 760, 771 (Fed.Cir.1983), cert. dewarn Moschlusyddrik GWBH u Americ can Boiel & Derrick Co., T30 F.2d 1452, claim is anticipated under 35 U.S.C. § 102, tlon. Kalman v. Kimberly-Clark Corp., 1468 (Fed.Clr,1984).

invention by an alleged infringer is strong

[5] 100. The initation of the patented evidence of what it thinks of the patent in

'847 patent

the world ought to think. Anderson Ca v.

Sears, Roebusk & Co., 165 F.Supp. 611,

The second secon

suit and is persuasive of what the rest of

ple prior art reference, or that the claimed invention was praviously known or embodied in a single prior art reference, or that the claimed Invention was previously nenfabrik GMBH, 120 F.2d at 1458. 'Unlass all of the same elements are found in [8] 103. One who seeks such a finding of anticipation must show that each and every element of the patent claim is found. as arranged in the claim, either expressly described or implicitly described under appropriate principles of inherency, in a sixmown or embodied in a single prior art device or practice. Lindemann: Maschi exactly the same situation and united in the 628, 119 U.S.P.Q. 236, 244 (N.D.II.1968), modified on other priunds 266 F.2d 755, 121 U.S.P.Q. 181 (Tth Chr.1959), Here, Keiley's fallure to develop a vehicle restraint prior to having access to Rite-Hite's vehicle restraint and Kelley's adoption of the vertically moving hook and other elements claimed in the 1847 patent provide additional evidence of unobviousness. Lang, 645 P.Supp. at 946-46. In fact, Kelley's vehicle restraint, which was identified by Kelley's Lok" (PTX-36), was nonexistent until Keltey obtained literature relating to Rice-Hice's vehicle restraint and actually inspecied, disassembled, and photographed Rib-Hite product. General Monitors, paraonnel as "Kelley's version of the Dok-

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same way to perform an identical function, there is no snicipation." National Business Systems, Inc. v. AM International, Inc., 646 F.Supp. 840, 956 (N.D.III.1982), affig., 448 F.24 1227 (7th Cir.1984), cert. denied, — U.S. —, 105 8.Ct. 2845, 85 I.Ed.28 861 (1985).

Kelley's Infringement of the '847 Patent

estate that whoever without suthority makes, uses, or sells any patented invention within the United. States during the term of the patent intringes the patent. 35 U.S.C. § 271(a). The patent owner has the ponderance of the evidence. This burden ponderance of the evidence. This burden extends to inferigement under the dottline of equivalents as well as to literatinifingement. Higher Afroraff. Co. v. United States, 717 P.24 1851, 1961, 219 U.S.P.Q. 473 (Fed.Cir.1983).

[10, 11] 106. The Issue of infringement relies at least two questions: (1) what is pstented, and (2) has what is pstented of year sold by another. The first is a question of law; the second is a question of fact. SSIH Equipment S.A. w. U.S. International Trade Commission, 718 F.24 386, 376, 218 U.S.P.Q. 678, 688 (Fed.Chr.1982). In this case, Rite-Hite obtained a combination of elements performing a combination of elements performing cabited functions. The Truk Stop device, made and sold by Kelbey, infinings at severed claims.

n. Literal Infringement

[12] 106. If an allegedly infringing product falls literally within the claim when the words are given their proper meaning, infringement is made out, and that is the end of the inquiry, Grover Tank and My. Co. n. Linde Air Products Co. 839 U.S.

3, In a patent infringement scion, patent chains measure the invention and define the bound-artes of patent protection. Rease w Elkhart

605, 607, To S.Ct. 854, 856-56, 94 L.Ed 1097, 85 U.S.P.Q. 328 (1950).

or the patentee's commercial device. Mor-tin w Barber, 165 F.2d 1864, 1667, 226 U.S.P.Q. 239, 285 (Fed.Cir.1985). The claims of a patent are to be construed in 49, 86 S.Ct., 708, 713, 15 L.Ed.2d 672, 148 U.S.P.Q. 479, 482 (1966). Each claim must Office, the prior art and comparison with other claims) may be considered. Graham, 383 U.S. at 32-83, 86 S.O. at 701; Froming or interpreting a claim, a whole host of light of the specification, and both are to be read with a view to ascertaining the invenbe considered as defining a separate invention history in the Patent and Tradematk tion. United States v. Adoms, 383 U.S. 39, tion. Jones, 727 F.2d at 1628. In construfacts (e.g., patent disclosurs, the prosecti-The question of intringement is resolved by comparing the accused device with the claims of the palent, not with the structure described in the patent 10m, 720 F.2d at 1569-71.

(1) "Means Plus Function" Claims

[16] 108. The independent claims in the B47 patent utilize "means plus function" language. Title 86 U.S.C. § 112 is used to interpret these functional claims and states:

An element in a claim for a combination may be expressed as a means or acts for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding be construe, material or acts described in the specification and equivalents thereof. [Emphasis addeed.]

To interpret the statute as limited to a particular means set forth in the specification would be to nullify that provision of § 112. The patentee's claim covers all combinations which utilize as the stated means the structure described in the specification for performing the stated function and also all combinations that utilize any

Walding & Boller Works Inc., 447 F.28 517, 171 U.S.P.Q. 129 (7th Cir.1971).

RITE-HITS CORP. v. KELLEY CO., INC. Chru 639 Laups 104 (ED.WIL. 1946)

that 750 F.2d at 1579-81. Nothing in the claims of Rite-Hite's patent limit the invention to a serie manual device or one with communications 86), opparatus.

(20) 111. Furthermore, the broader claims asserted here cannot be construed to be limited to a ratchet end paw) as the "think means," or to manual operation. This isw is applicable here because Cisims 5, 6, and 70 of the '847 patent, which are not asserted, recite that the third means includes a ratchet and pawl, and Claims 4 and 9 recite means loperation. These marrow claim limitations cannot be read into the broader claims to avoid infringement. D.M.I., 755 F.2d at 1574.

b. Doctrine of Equivalents

Orner Park and 18/9, Co. v. Linds Air Products Co., 339 U.S. 806, 608, 70 S.Ct. 854, 866, 94 L.Ed. 1097, 85 U.S.P.Q. 828 (1950). The doctrine of equivalents is de-(21, 22) 112. Kelley cannot avold a finding of infringement by arguing that its device falls outside a literal reading of the claims of the '847 patent. Although the claims of a patent are the measure of the protected invention, the judicially created "doctrine of equivalents" adds latitude and breadth to the application of claim language in order to prevent the infringer rom perpetrating "a fraud on a patent," algned to protect a patentee, such as Rite-Hite, from an infringer, such as Kelley, who appropriates the invention even if the infringer avoids the literal language of the claims. As such, a finding of infringement Is in order here because Ketley's device the same way to achieve substantially the las Powder Co., 750 F.2d at 1579-81; Sani. lary Refrigerator Co. v. Winters, 280 U.S. 30, 42, 60 S.Ct. 9, 13, 74 L.Ed. 147 (1929); Graver Tank, 339 U.S. at 601, 70 S.CL at 865-56. Under this doctrine, Rite-Hite's claims are infringed by Kelley's imitation even if Kelley did not precisely clone every performs the same function in substantially thank detail of Rite-Hite's claimed inven-(21, 22) 112. Kelley cannot avold same result as the claimed invention.

RITE-HITS CORP. v.
Ch. a.639 (Jupp 10s
structure which is the equivalent of that
described structure insofer as it performs

the stated function, DML, inn a. Deers & Co., 755 F.2d 1870, 1874 (Fed.Chr.1986). The Court in Patharbo a. Don-Joy Co., 762 F.2d 989, 975 (Fed.Chr. May 20, 1985), recognized that a "means plus function" claim is construct inp. cover John the disclosed actucture and equivalents thereof" for performing the stated function. The Court in Palumbo added that an important factor in the determination of equivalents is whether persons reasonably skilled in the art would know of the interchangeability of an ingredient not condained in the palent with one that was. Palumbo, at 977.

specification, (3) the prosecution history of "means" claim may be determined, and the '847 patent, the amendments to the tion of the Taylor, et al., patent makes it the patent, (4) other claims in the patent, whether the Kelley device is a § 112 equivslent of the described embodiment is a Here, looking to the prosecution history of claims and description following the citaclear that the acopa of equivalents for the [17, 18] 109, In constraing such a claim, the language of the claim, (2) the patent and (5) expart testimony. Once these factors are weighed, the scope of the question of fact. Palumbo, at 975-76. a number of factors may be considered: (1) third means is broad.

[19] 110. In addition, Kelley cannot esor performs additional functions or adds 1984), cert. denied, — U.S. —, 106 S.Cr. 306, 83 L.Ed.2d 240, 224 U.S.P.Q. 616 840, 848, 221 U.S.P.Q. 667 (Fed.Cir.1984), cape infringement by the mere fact that its features or is an improvement. Amstar 1481-82, 221 U.S.P.Q. 649, 663 (Fed.Cir. Luring Co. v. MTD Products, Inc., 731 F.2d cort denied - U.S. -, 105 S.Ct. 119, Truk Stop restraint is more or less efficient than the subject matter Rite-Hite claimed Corp. v. Envirotech Corp., 730 F.2d 1476, (1984); Radio Steel & Manafacturing Co. u. MTD Products, Inc., 781 F.2d 840, 848 221 U.S.P.Q. 657 (Fed.Cir. 306, 224 U.S. P.Q. 616 (1984); Radio Steel & Manufac 83 L.Ed.2d 62 (1984); Atlas Powder

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(23, 24) 118.

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(21) 116. In addition, the more use by Kelley of a component that may be more appliableated than that disclosed in the specific embodiment of the Rite-Rite patent does not allow Kelley to escape an approthon. Hughes Afreraft Co., 117 F.2d at 1365-66; Allas Powder Co., 766 F.2d at 1879-81; Bendix Corp. v. United States, 600 F.2d 1864, 1382, 220 Ct.Cl. 601, 294 priste range of equivalents and thereby avoid infringement of the cialmed inven-U.S.P.Q. 617, 631 (1979). to which a patent claim is entitled is on a mes & Andre Practor Repairs, Inc., 438 F.Supp. 768, 768, 196 U.S.P.Q. 224 (bLD.La. The range of equivalents iliding scale depending on the nature of the iavention, John Zink Co, v. National Air roil Burner Co, 618 F.2d 547, 666, 206 U.S.P.Q. 494 (3th Chr.1980); Julien u. Go-1977), affd, 607 F.2d 1004 (6th Cir.1979). In particular, when a patented invention has had "significant commercial success" or the patent is of the "pionaer type," the patent claims are to be construed liberally

Rite-Hite's Right to Recover Prejudgment Interest

and are not to be limited to the identical means and made of operation shown in the pstant. Graver Tank, 239 U.S. at 608-09, 10 S.Ct. at 856; King-Seeley Thermos Co. 713, 720 (N.DJIL1970); Chicago Patené

would have been paying in royalites. General Motors Corp. a Devez Corp., 461 U.S. etc., 108 S.Ct. 2068, 76 L.Ed.2d 211 (1988). interest as provided in 35 U.S.C. § 284 in order to provent the intringer from having the benefit of the use of the money which it [28] 116. In addition to the other relief recoverable for infringement of its patent, the patentos should recover prejudgment

> Cir.1941). The broadest protection is given fore performed, a wholly novel device, or one of such novelty and importance as to

t. Reymolds Products, Inc., 322 F. Supp. Corp. 9, Genea Inc., 124 F.2d 725, 728 (7th to "a patent covering a function never be(29) 117. The enserted claims of the '847 patent are not trivalid and are intringed by Kelley by making and selling the inuk Stop vehicle restraint.

mark a distinct step in the progress of the set." Ziegter u Philipp Petroleum Co., 482 F.2d 858, 876, 177 U.S.P.Q. 481 (5th Cr.1973), oct. denied, 414 U.S. 1979, 84

S.Ct. 697, 38 L.Ed.2d 486, 180 U.S.P.O. 1 patent because it claims a vehicle restraint

1973). The Rite-Hite patent is a ploneer

that functions in a novel manner, unlike any of the earlier testraints of Rite-filts or

Q. Multiplied Domages and Attorneys Fees Are Not Warranted

found or assessed may be awarded by the Court. Kelley's activities here do not war-118, Under 35 U.S.C. § 254, multiplied damages up to three times the amount rant such an award.

> not only to so-called planeer patents, but bution to an existing art and patants that

(85, 26) 114. Broad protection is given also patents that make a substantial contriconsist of a combination of old ingredients Grewer Tank, 839 U.S. at 603, 70 S.Ct. at 856; Julien, 438 F.Supp. at 768. Accord-

anyone else.

119. The activities of Kelley and the circumstances of this case are not sufficiently exceptional to prompt an award of attorneys' fees under 35 U.S.C. § 285

III, STAY OF EXECUTION

ingly, the cisins of a patent are entitled to a range of equivelents commensurate with the scope of the invention. Ziegler, 483 the significant advance in the art presented

that produce new and useful results.

F.2d at 869. In this instance, because of by the Rite-Hite '847 patent and the maniest commercial success, the claims are giv-

the broadest possible interpretation.

is technically premature because a notice of appeal has not yet been filed, but the Court has the authority to grant a stay conditloned on the movent's Ming of a notice of 120. Kelley has moved for a stay of injunction pending appeal. The motion ppeal within a specified period.

SAUNDERS 4. STATE OF N.Y. Clie as 429 F. Supp. 1067 (N.D.N.Y. 1936)

appellee. Providence Journal Co. v. Federal Bureau of Investigation, 695 F.2d 889 bly harming the appellant, and granting of to the litigation; and (4) that a stay is in the public interest. Adams n. Walker, 488 F.2d 1064, 1066 (7th Clr.1973); Dacker to solute probability of success on the merits tion would destroy the status quo, irreparathe stay will cause only slight harm to the the Court may in its discretion suspend a pending appeal can show: (1) that it is suffer treparable injury, (3) that a stay would not substantially harm other parties U.S. Department of Labor, 466 F.Supp. 837, 844 (E.D.Wie.1986). A showing of abon appeal need not be anade if the injuncfinal judgment granting an Injunction if the party secking suspension of the judgment likely to prevail on the merits on appeal; (2) that unless a stay is granted it will Under Fed.R.Clv.P. 62(c) (31, 32] 121,

{43} 122. Upon consideration of the foregoing factors and the affidavit of Kelley which has been submitted in comerc. 1 out hond should be allowed pending Kelconclude that a stay of the injunction with-

The American Company of the Company

U.S.C. § 289, and that Kelley is liable to the plaintiffs for damages, theluding pre-judgment interest, as a result of its indefendant Kelley Cempany, Inc., its offi-cers, employees, agents, and those in privi-ty with them are enjoined from infringing claimed vehicle restraint pursuant to 35 IT IS THEREPORE ORDERED that the U.S. Patent 4,873,847 by the manufacture or sale of vehicle restraints sold under the trademark Truk Stop and embodying the fringement.

....

ployee of the Division of State Police of the State of New York and Various

Employees of the Division of State Police of the State of New York, Individually and in their official and/or super-

in his capacity as on investigotor in the Division of State Police of the State of New York, Gerald Looney, Individually and in his official capacity as an em-

> ther, this stay shall expire within thirty ed pursuant to Fed.R.Civ.P. 62(c), but furdays of the filing date of this decision and . IT IS FURTHER ORDERED that Kellay's motion for a stay of the above-described injunction pending appeal is grantorder unless a notice of appeal within that period

Edgar SAUNDERS, Plaintiff,

capacity as an investigator in the Dividividually and in his capacity as an investigator in the Rengialaer County individually and in his capacity on an Department, Who are at this Time, Unknown, Individually and in their official capacities as members of the Rens-Richard Crist, individually and in his sion of State Police of the State of New York, Michael Cryon, individually and Rengielaer County, Emmanuel Ned, In-Sheriffs Department, William Pokeda, investigator in the Rensselaer County ees of the Rennelper County Sheriff's seiser County Sheriff's Department, The STATE OF NEW YORK, the Division York, the County of Reasseladt, the County, Robert Krogh, individually and In his capacity as Under-Sheriff of Sheriff's Department, Various Employof State Police of the State of New Rensselser County Sheriff's Department, Bugene Baton, Individuelly and In his capacity as Sheriff of Rensselver

No. RS-CV-393.

Division of State Police of the State of

United States District Court, N.D. New York.

March. 5, 1936

Upon a motion to dismits § 1983 claims arising out of a state triminal case

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Appendix 5

MI FEDERAL REPORTER, 2d SERIES

mission abuses its discretion by declining to by a respondent of goods known to the complainant at the time of the agreement. ant as well as the public interest, the Comrelease the bond merely because of sales

Blocraft also makes other arguments which we seed not address.

CONCLUSION

The Commission's denials of Blocraft's posted pursuant to the Temporary Cease requests for return or cancelladon of bonds were an abuse of discretion. Its order is and Desist Order Issued Jahuary 10, 1990,



In re Mark A. VAECK, Wipa Chungjatupornehal and Lee McIntosh,

United States Court of Appeals, Federal Circuit, No. 91-1120,

vention directed to use of genetic engineer ing techniques for production of insectiched proteins. The United States Patent and and interferences affirmed an examiner's taken. The Court of Appeals, Rich, Clruit Judge, held that: (1) patent application was Inventor sought patent for claimed in-Trademark Office Board of Patent Appeals rejection of certain claims, and appeal was improperly rejected on ground of prima claims were too general to enable person facle abriousness, and (2) patent application was properly rejected to extent that skilled in art to make and use claimed nvention without undue experimentation.

Affirmed in part, revarsed in part.

Mayer, Circuit Judge, dissented and

1. Patents @314(6)

patent is sought is legal question which court independently reviews, though based upon Patent and Trademark Office's underlying factual findings, which court reviews Obviousness of invention for which under clearly erroneous standard. 35 U.S.C.A. § 108.

2. Patents 4=16(2)

prior art references, court considers whether prior art would have suggested to those or art would also have revealed that in so expectation of success must be found in prior art, not in applicant's disclosure. 35 patent as obvious in view of combination of of ordinary skill in art that they should make claimed composition or device, or skill would have reasonable expectation of success; both suggestion and reasonable In coviewing rejection of invention for carry out claimed process, and whether primaking or earrying out, those of ordinary expectation of success must be found U.S.C.À. § 108.

J. Patenta 4-16,26

ticidal proteins was improperly rejected on ground of prime facte obviousness; prior art did not disclose or suggest expression insecticially active protein, or convey to Patent application for genetic enginearing techniques for production of insec-In cyanobacteria of chimeric gene encoding those of ordinary skill reasonable expects. tion of success in doing so, 35 U.S.C.A.

Oct. 21, 1991

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4. Patents 299

To be patentable, specification of patent must enable any person skilled in art to which it pertains to make and use claimed invention without undue experimentation, 36 U.S.C.A. \$ 112,

Palenta 0-99

son skilled in art to make and use claimed Patent application for using genetic entheering techniques to produce insecticidal proteins was properly rejected to extent that claims were too general to enable perinvention without undue experimentation

Che so yet Fad 444 [Fed Cir, 1951] IN RE YAECK

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part and reversed in part. claim referred to use of cyanobacteria in prising some 150 different genera, with general as host organism, despite fact that successful use of any one type in manner cyanobacteria were diverse and relatively poorly studied group of organisms, comcalled for in Invention being unpredictable. U.S.C.A. § 112.

8. Patents @99

and how to use invention as broadly as it is requirement for patentability, there must lustrative examples or terminology, to teach those of ordinary skill how to make quired to disclose every species encompassed by their claims, even in unpredictable art, in order to salisfy enablement be sufficient disclosure, either through It Although patent applicants are not reclalmed. 35 U.S.C.A. \$ 112, Ian C. MeLeod, Ian C. MeLeod, P.C., Okemos, Mich., argued for appallant.

Teddy S. Gron, Associate Sol, Office of the Sol, of Arlington, Va., argued for appellee. With him on the brief were Fred E. McKelvey, 30t. and Richard E. Schafer, Associate Sol.

Before RICH, ARCHER, and MAYER, Circuit Judges.

RICH, Circuit Judge.

porating a DNA Fragment Containing a as a Biocontrol Agent" as unpatentable under 35 U.S.C. § 103, as wall as the refecapplication Serial No. 07/021,405, filed March 4, 1987, tilled "Hybrid Genes Incor-Gene Coding for an Insecticidal Protein, Plasmids, Transformed Cyanobacteria Expressing Such Protein and Method for Use This appeal is from the September 12, 1990 decision of the Patent and Trademark Office (PTO) Board of Patent Appeals and Interferences (Board), affirming the examiner's rejection of claims 1-48 and 50-52 of

cloning and expression have been described in for re. O'Parrell, 853 F,2d 894, 895-99, 7 U.S.P.Q.2d 1673, 1674-77 (Fed.Cir.1988), and Saide vecebulary and techniques for gene ere not repraied here,

. All living relis can be classified into one of two broad groups, processystes and exceptyotes.

tion of claims 1-48 and 60-51 under 35 U.S.C. § 112, first paragraph, for lack of enablement. We reverse the \$ 103 rejection. The \$ 112 rejection is affirmed in

BACKGROUND

The Invention

cost method of producing the insecticiós! thus rendering this method prohibitively black files. Those swamp-dwelling pests are the source of numerous human health problems, including malaria, It is known that certain species of the naturally-occurproteins ("endotoxins") that are toxic to these insects. Prior art methods of combatting the insects involved spreading or spraying crystalline spores of the insectleidal Bacillus proteins over swamps. The spores were environmentally unstable. however, and would often sink to the bottom of a swamp before being consumed, expensive. Hence the need for a lower-Bacillus proteins in high volume, with apuse of genetic engineering techniques tor production of proceins that are toxic to ring Bacillus genus of bacteria produce insects such as larvee of mosquitos and The claimed invention is directed to the plication in a more stable vehicle.

the cyanobactaria are capable of oxyganic when Bacillus proteins are produced withria. Although both evanobacteria and bachave been referred to as "blue-green algae") are unique among procaryotes in that photosynthesis. The cyanobacteria grow on top of swamps where they are consumed by masquitos and black flies. Thus, As described by appellants, the claimed ing for the production of the inscaleddal Bacillus proteins within hast cyanobacteteris are members of the procuryote thing. dom, the cyanobacteria (which in the past subject matter meets this need by provid-

cells that do not have a distinct nucleus; their DNA floats throughout the cellular chapturn. In contrast, the cells of exercyotic organisms algae and yeart have a distinct madeus wherein their DNA resides. The processiones comprise organisms formed of such as man, other animals, plants, protozoa

in transformed? eyanobacterial hosts actargeted insects advantageously guarancording to the claimed invention, the presthe insecticide in the food of the tees direct uptake by the Insects. ence of

it (i.e., hybrid) gene comprising (1) a gene derived from a bacterium of the Bacillus genus whase product is an insecticidal procein, united with (2) a DNA promoter effective for expressing ' the Bacillus gene in a host cyanobatterium, so as to produce the More particularly, the subject matter of he application on appeal includes a chimer-Jestred Insecticidal protain,

The claims on appeal are 1-48 and 50-52, claims remaining in the application.

1. A chirreric gene capable of being expressed in Cyanobacteria cells compris-Claim 1 reads:

(2) a DNA fragment comprising a promoter region which is effective for expression of a DNA fragment in a Cyanor

an insecticidally active protein produced by a Bacilius strain, or coding for an the above protein or coding for a prolein having substantlai sequence homology to the active protein. insecticidally active truncated form of (b) at least one DNA fragment coding for bacterium; and

the DNA fragments being linked so that the gene is expressed.

independent claim 33 and claims 34-48 which depend therefrom recite a cyanobac-Claims 2-13, which depend from claim 1, ers, and selectable markers.⁶ Independent claim 16 and claims 17–81 which depend therefrom are directed to a hybrid plasmid vector which includes the chimeric gens of claim 1. Chim 32 recites a batterial strain. recite preferred Bacillus species, promot-

have successfully taken up the foreign Bacillus DNA such that the DNA Information has be-come a permanent part of the dost cyanobacte-fia, to be replicated as now cyanobacteria are "Transformed" cyanobacteria are those that

"Expression" of a gene refers to the produc-tion of the protein which the gene emodden more specifically, it the process of transfer-ring information from a gene (which constats of

of claim 1. Claims 60-51 reclus an insecticidal composition. Claim 62 recites a particular plasmid that appellants have deposit-Lerlum which expresses the chimeric

B. Appellants' Disclosure

nechocysics 6803 promoter for the revisco operon, is utilized instead of the Lambda cialms on appeal detail the transformation ing a particular insecticidal protein ("B.1. 8") from Bacillus thurmyiennis var. irroe the Ps promoter from the bacteriophage Lambda (a virus of E. coli). In another example, a different promoter, i.e., the Sy-The working examples relevant to the nechocystis 6803 cells, are transformed with a plasmid comprising (1) a gene encodlensis, linked to (2) a particular promoter, as sources of insecticidal protein; and nine Anaoysis, Synechococous, Agmenellum, Aphanocopsa, Gloecepsa, Nostoc, Ana baena and Ffremyllia) as useful hosts. of a single strain of cyanobacteria, be, Symechooystis 6809, In one example, Sy-In addition to describing the claimed invention in generic terms, appellants' specifleation discloses two particular species of genera of cyanobacteria (Synechocystis, Bacillus (B. thuringiensis, B. sphaericus) P_L promoter.

G The Prior Art

were cited and applied, in various combina-A total of eleven prior art references tions, against the claims on appeal.

bacteria. To that end Deelzkains discloses reference aited against all of the rejected claims, is to determine whether chloroplast erle gene comprising a chloroplast promot-The focus of Dzelzkalus, the primary promoter sequences can tunction in cyanothe expression in cyanobacteria of a chim-

A THE RESERVE AND ADDRESS OF THE PARTY OF TH

DNA) via messager RNA to ribosomes where a specific protein is made.

lectable markens or "marker genes" refer to antibiationestatunes conferring DNA fragments, attached to the gene being expressed, which selection of successfully trans-5. In the context of the claimed invention, formed cyanobactoria. faciliate the

6. 12 Nucleic Acids Res. 8917 (1984).

ports that the nucleotide sequence 14-8 base pairs preceding the transcription stark site "resembles a good Escherichia coli promoter," but that the sequence 35 base for transcription of the gene encoding tone-1,6-bisphosphate carboxytase. It re-Nierzwicki-Bauer 14 identifies in the cyanobacterium Anabaena IIVO the start site rock, the large subunit of the encyme ribu pairs before the start site does not. Cite 1 147 F34 454 (Fed. Clr. (1991) ferring genes for selection purposes is a ing certain Bacillus Insecticidal proteins in ensyme chloramphenicol acetyl transferase CAT). Importantly, Dreizkains teaches gene; this use of antibiotic resistance-contively disclose expression of genes encodthe use of the CAT gene as a "marker" common technique in genetic angineering. Sekar I, Sekar II, and Ganesan to collect encoding the

IN RE YABOK

or sequence fused to a genc

various proteins formed by fusion of certain foreign DNA sequences with the neo Reins 11 studies expression in S. coti of Chauval 15 discloses host-vector systems resistance-conferring neo gene is utilized for gene cloning in the cyanobacterium Synechocystis 6808, in which the spulbiotic as a selectable murker.

designed for transformation of the cyanoan antibiotic-resistant gene linked to chromosoms! DNA from the Synechococcus Kolowsky 12 discloses chimeric plasmids bacterium Symechococcus R2, gone,

cloned gene, detrimental effects on cell

tered such as suboptimal expression of the growth of overexpressed, highly hydrophobic proteins, and rapid turnover of some

berg states, problems may still be encoun-

erature-sensitive repressor gene of the bacteriophage Lambda, While the cyanobacte-

ris are attractive organisms for the cloning of genes involved in photosynthesis, Fried-

the bacterial hoats B. megalerium, B. sub-

tilis and S. coli.

Friedderg 11 discloses the transformation of the cyanobacterium Anacystis nidulans R2 by a plasmid vector comprising the O.P. operator-promoter region and a tempeyanobacterium.

hicles which, it states, have "considerable potential for use as vectors the expression of which can be controlled in Anadys-

Friedbarg teaches the use of the disclosed Lambda regulatory signals in plasmid ve-

gene products. To address these problems,

(such as those encoding Bacillus proteins) nas batteria. The host cells are killed by this treatment, but the resulting pesticidal compositions exhibit prolonged taxle activi-Barnes, United States Patent No. 4,696, 455, is directed to the treatment with stabilizing chemical reagents of pesticides produced by expression of heterologous genes in host microbial cells such as Pesudomoly when exposed to the anvironment larget pesta. species of cyanobacteria (Fremyella diplosiphon and Anacystis nidulare), as well

specifici

hes in wire of DNA dependent RNA polymerases 11 purifled from two different

Miller 12 compares the inlustion

;...)

ion contained to the gene. Initiation specifiedly in the ability of the R&A polymerase to initiate this process specifically at a site(s) on the DNA ing an RNA molecule that includes the Informa-In DNA, and then moves through the gene make

Comm. 748

. 137 Biachten, and Biophys. Res. (1986).

Chloramphenical is an entitlatic CAP is en entyme which destroys chloramphenical and

as from E. coli.

thus imparts realstance thereto.

(1984). 14. BI Prop North Appel. Sci. USA 5961

> 19, 189 Mal Gen. Genet. 183 (1953). 11. 203 Hol. Gen. Gener. 205 (1986).

9. 33 Gane 151 (1985).

204 Mol. Cen. Cener. 155 (1986). 29 Gent 211 (1984).

Gene 289 (1954). F

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b. RNA polymerane, the enayme reaponsible for making RNA from DNA, blids at specific nu-elooids sequences (gromofers) in front of genes

12. 140 J. Bacreriology 246 (1979).

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D. The Grounds of Rejection

The § 103 Rejections

hosts for the expression of heterologous bacteria as heterologous hosts for exprescyanobacteria to serve as transformed genes. In the absence of evidence to the iner contended that it would have been obvious to one of ordinary skill in the art to substitute the Bacillus genes taught by gene in the vectors of Dzelzkalns in order to obtain high level expression of the Bacil. ius genes in the transformed cyanobacter ria. The examiner further contanded that would have been obvious to use eyanosion of the claimed genes due to the ability lus, and the advantages of expressing such larger quantities of the protein. The exam-Sekar I, Sekar II, and Ganesan for the CAT insecticidally active protein. However, the examiner pointed out, Sekar I, Bekar II. cidally active proteins produced by Bacilgenes in heterologous is hosts to obtain knowledged that the chimeric gene and transformed hast of Dzelskalns differ from structural gene encodes CAT rather than and Ganesan teach genes encoding insectiand Garresan. The examiner stated that ble of being highly expressed in a cyano-sacterium, said gene comprising a promoter region effective for expression in a cyanobacterium operably linked to a structural gene encoding CAT. The examiner acthe claimed invention in that the former's application) were rejected as unpatentable Ozelzkalns in view of Sekar I or Sekar II Daelakains discloses a chimeric gene capa-(which include all independent claims in the U.S.C. \$ 103 based upon Claims 1-6, 16-21, 33-38, 47-48 and

19. MPEP 786.03(n), "Correspondence of Clein 18. Denotes different species or organism-

In chemical cases, a claim may be so broad as to not be supported by [the] direlowire, in which case is rejected as unwarranted by and Disclosure," provides in parts the disclosure ... (I) supplications directed to inventions in arts where the results are unpredicibible, the discipant chosure of a single species urually does not provide an adequate basis to support genetic claims. At w Sed. 1938 C.D. 723: 497 Q.G. claims.

NPSP 106.03(2), "Undue Breadth," provides

vention as a whole was prima facie obvious. contrary, the examiner contended,

Dretzkains in combination with Sekar I, Sekar II, and Ganesan, and further in view of other references discussed in Part C against various groups of dependent claims which we need not address here. All additional rejections were made in view of Additional rejections were entered

as its opinion while adding a few comments, The legal conclusion of obviousness does not require absolute certainty, the Board added, but only a reasonable expectation of success, citing in re O'Far-Cir.1988). In view of the disclosures of the prior art, the Board concluded, one of ordinary skill in the art would have been moth rated by a reasonable expectation of success to make the substitution suggested by basically adopting the examiner's Answer rell, 663 P.2d 894, 7 U.S.P.Q.2d 1673 (Fed. The Board affirmed the \$ 103 rejections. the examinet. above.

The § 112 Rojection

be required of the art worker to practice the claimed invention, in view of the unpredictability in the art, the breadth of the claims, the limited number of working eximples and the limited guidance provided sure was enabling only for claims limited in cedure (MPEP) provisions 106,08(n) " and (t) 10 as support, the examiner tack the position that undue experimentation would paragraph, on the ground that the discloaccordance with the specification as filed. Citing Manual of Palent Examining Pro-"The examinar also rejected claims 1-48 and 50-51 under 35 U.S.C. § 112, that -~i

\$46. This is because in arts such as shemlisty is so not obvious from the disclosure of one species, what other species will work. In repeated, 1946 CD, 1515 \$18 O.G. 135 gives this general role: "It is well estited that in easte involving chemicals and chemical compounds, which differ redicably to that grocer itsel must appear in an supplicant specification of a sufficient number of the members of a group or by other appropriate language, that the chemicals or chemical combinations included in the claims are capable of accomplishing the desired result."

s reasonable expectation of success. See In re Dow Chemical Co., 837 F.2d 469, 473,6 U.S.P.Q.2d 1629, 1531 (Fed Chr.1938). Both the suggestion and the reasonable expectation of success must be founded in the prior art, not in the applicant's disclo-With respect to un. a reasonable expectation of success. IN RE VAECE. Libe cyanobacteria comprise a large

sure. Id.

ris, without more, does not render obvious gene encoding Bacillus insectidas proteins for the CAT gene utilized for selecresistance-conferring genes in cyanobactethe expression of unrelated genes in cyanoactive protein, or convey to those of ordinary skill a reasonable expectation of suc is no suggestion in Deeltkeins, the primary reference cled against all chaims, of subsid-tuting in the disclosed plasmid a structural tion purposes. The expression of antibiotic cess in daing so. More particularly, there PTO has not established the prime facie The prior art simply does not disclose or suggest the expression in cyanobacteria of a chimeric gens encoding an insecticidally [3] We agree with appellants that the obviourness of the claimed subject matter. bacteria for unrelated purposes.

cillus genes encocing insecticidal proteins In certain transformed bacterial hosts, no where do these references disclose or suggest expression of such genes in transsecondary references Sekar I, Sekar II, and as well as in the bacterium E. coli. While these references disclose expression of Ba-The PTO argues that the substitution of hsecticidal Bacillus genes for CAT marker genes in cyanobactaria is suggested by the Ganesan, which collectively disclose expression of genes encoding Basillus inserticidal proteins in two species of host Bacillus bacteris (B. megatorium and B. sublifis) formed cyanobacterial nosts.

While it is true that bacteria and eyanobacteria are now both classified as procaryotes, that fact alone is not sufficient to phasizes similarity between bacteria and cyanobactoria, namely, that these are both procaryotle organisms, and argues that this fact would suggest to those of ordinary skill the use of cyanobacteria as hosts for expression of the claimed chimeric genes. motivate the art worker as the PTO con-To remedy this deficiency, the PTO em-

predictability, the examiner stated that

fore the level of unpredictability regard-ing hetarologous gene expression in this large, diverse and relatively poorly studsubject of intensive investigation and this work is limited to a few genera. Therecus, Agmenellum, Nostoc, Anabaena etc. The molecular biology of these or ganisms has only recently become the and diverse group of photosynthetic bacterla including large numbers of species in some 160 different genera including Synechocystis, Anacystis, Synechococied group of processyotes is high....

art, would not have enabled one having ordinary skill in the art to practice the out undue experimentation. In re Fisher, 427 F.2d 835, 166 U.S.P.Q. 18 (OCPA 1970)." gree of unpredictability in this particular broad scope of the claimed invention with-The Board affirmed, noting that "the Umited guidance in the specification, considered in light of the relatively high do-

OPINION

Obviousners

prima facia obvious within the meaning of 35 U.S.C. § 103. Obviousness is a legal question which this court independently reviews, though based upon underlying factual findings which we review under the clearly erroneous standard. In re Wood-ruff, 919 F.2d 1875, 1877, 16 U.S.P.Q.23 1934, 1935 (Fed.Chr.1990). erred in rejecting the claims on appeal as [1] We first address whether the PTO

and (2) whether the prior art would also have revealed that in so making or carrydavice, or carry out the claimed process; the prior art would have suggested to should make the claimed composition or ng out, those of ordinary skill would have [2] Where claimed subject matter has been rejected as abylous in view of a combination of prior art references, a proper analysis under § 103 requires, inter alla, consideration of two factors: (1) whether those of ordinary skill in the art that they

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cyanobactoria tencis to rebut, rather than support, the PYO's position that one would cent uncertainty regarding the biology of ria and bacteria are not identical; they are classified as two separate divisions of the only in recent years that the biology of cysnobacteris has been clarified, as evidenced by references in the prior art to "blue-green algae," Such evidence of rekingdom Procaryolae, 11 Moreover, 12 is As the PYO concedes, cyanobacte-

quence (the -35 region) does not. While Miller speaks of certain promoters of the bacteriophage lambda that are recognized suggesting differences in the structures of both eyanobacterial and S. coll RNA polymerases, it also discloses that these promotere exhibited differing strengths when exposed to the different polymerases. Differing sensitivities of the respective polymerases to an inhibitor are also disclosed, certain nucleotide sequence (i.e., the -10 but that another nearby nucleotide asexample, Merzwicki-Bauer reports that a consensus sequencel in a particular cyanobatterium resembles an E. coli promoter. cion. We disigree. As with the Oseelekshus, Sekar I, Sakar II, and Ganesan references discussed above, none of these additional references disclose or suggest that cyanobacteria eauld serve as hosts for expression of genes encoding Bacillus insecticidal proteirs. In fact, these addition. s) references suggest as much about differences batween cyanobacteria and bacteria as they do about similarities. For quence hamology between bacteria and cyanobacteria. The PTO argued that such homology is a further suggestion to one of ordinary akill to ettempt the claimed invenit contended disclose certain amino acid se-2 idditional secondary references, not cited gainet any independent claim (Le., Friedberg, Miller, and Niarzwicki-Bauer), which At oral argument the PTO referred expression of the claimed gene. the initiation complexes.

1. Stedenar's Medical Dictionery 1139 (24th ed. 1983) (definition of "Procaryotee"). Procaryotte organisms are commonly classified according to the following transform Kingdom:

cyanobacteria would be equally attractive hosts for expression of unrelated heterologous genes, such as the elsimed genes enfor the capability of undergoing oxygenic photosynthesis is what makes the cyanoever, these references do not suggest that of both native and heterologous gener in-The PTO asks us to agree that the prior contlude that cyanobacteria are attractive hosts for expression of any and all heterologous genes. Again, we can not. The relevant prior art does indicate that cyanobacteria are attractive hosts for expression volved in photosynthesis (not surprisingly, coding Bacilius Insecticidal proteins. bacteris unique among procaryotes). consider the cyarobacteria effectively in-terchangeable with bacteria as hosts for

protain, and further predicted that If a gene coding for a protein were to be substiwhile the claimed invention substituted a gene coding for a predetermined protein. ribosomal RNA gane was translated into cuted, extensive translation might result. as the appellants therein pointed out, the ribosomal RNA gene is not normally trensliminary evidence that the transcript of the ference between the prior art and the claim at issue was that in Polisky, the neterolo-1d. at 901, 7 U.S.P.Q.2d at 1679. Although, lated into protein, Polisky mentioned preproducing a "predetermined protein in a stable form" in a transformed bacterial gous gene was a gene for ribosomal RNA, 853 F.2d at 895, 1 U.S.P.Q.2d at art publication (the Polisky reference) whose three suthors included two of the three coinventor-appellants. The main dif-The cited references included a prior In O'Farrell, this court affirmed an obviousness rejection of a claim to a method for Id, We thus affirmed, explaining that host 1674.

the prior art explicitly suggested the substitution that is the difference between and presented preliminary evidence sugthe claimed invention and the prior art, be used to make proteins. Division; Class, Order, Family: Genux. Spe-cies. I Bergo's Manual of Systematic Bectanology 160 (1989).

Cit as M7 Fad ats (Fed. Ctr. 1991) IN RE VAECK and evidence auggesting that it ... Polisky contained detailed enabling invention, a suggestion to modify the prior art to practice the claimed invenmethodology for practicing the claimed

id, at 901-02, 7 U.S.P.Q.2d at 1679-80. would be successful.

suggestion, explicit or implicit, of the substitution that is the difference between the over, the "reasonable expectation of succose" that was present in O'Farrell is not present here. Accordingly, we reverse the In contrast with the situation in O'Forrell, the prior art in this case offers no claimed invantion and the prior art. More-4 109 rejections.

B. Enablement

perimentation may be required is not fatal, the issue is whether the amount of experimentation-required is "undue." Id. 11 736-37, 8 U.S.P.Q.24 21 1404. Enablement, like obviousness, is a question of isw which we independently review, although based upon underlying factual findings which we review for clear error. See ich at 735, 8 1400, 1404 (Fed.Clr.1989), That some ex-2 Wands, 868 F.2d 731, 737, 8 U.S.P.Q.2d g 11.2 requires, inter also, that the specification of a patent anable any person skilled in the art to which it pertains to make and use the claimed invention. Although the statute does not say so, enablement requires that the specification teach those in the art to make and use the invention with-[4] The first paragraph of 35 U.S.C. out "undue experimentation." In U.S. P.Q.2d at 1402.

would provide no real protection, appellants oneering," and that this should entitle them to ciaims of broad scope. Narrower claims argua, because the level of akill in this art is so high, art workers could assily avold the claims. Given the disclosure in their appellants assert that their invention is "pi-[6] In response to the § 112 rejection,

based upon a post-filling date state of the art, as in he referen. Sty F.24. 555, 652-67, 194 U.S.P.O., 127, 316-38, GCPA, 1977, See actor United Siries Steel Corp., r. Phillips Putathern Co., 865 F.24 1347, 1331, 9 U.S.P.Q.24 1441, 1444 (Fed.Cu.1989) (cling Hogen); Hormond 12. The enablement rejection in this case was not

bacteria, using a variety of promoters and Bocilius DNA, and could easily determine skilled microbiologist could construct vec-tors and transform many different eyanowhether or not the active Bacillus protein was successfully expressed by the cyanocontend that any specialcation, appellants bacteria.

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lants' specification, and only nine genera of cyanobacteria are mentioned in the ontire tions. Moreover, we note that only one particular species of cyanobacteria is employed in the working examples of appelheterologous gene expression in cyandbacteria is "unpredictable." Appellants have not effectively disputed thase asserprising some 160 different genera, and that poorly studied group of organisms, com and we need not address the Issue here. 14th the exception of claims 47 and 48, the olsims rejected under § 112 are not limited to any particular genus or species of cyandbacteria. The PTO's position is that the cyanobacteria are a diverse and relatively The PTO made no finding on whether the claimed invention is indeed "ploneering," document.

correlation to the scope of enablement proscope of the claims must bear a reasonable vided by the specification).12 Accordingly, paragraph. There is no reasonable correla-tion between the narrow disclosure in apof protection sought in the claims encourpassing gene expression in any and all cys-889, 166 U.S.P.Q. 18, 24 (CCPA 1970) (the first paragraph of § 112 requires that the tive in the claimed invention, we are not persuaded that the PTO erred in rejecting pellants' specification and the broad scope nobucteria. See In re Pisher, 427 F 2d 833, well as the limited disclosure by appellants of particular cychobacterial genera operaclaims 1-46 and 50-51 under § 112, first plete understanding of the blobegy of cyarobacteria as of appellants' illing date, as Taking into account the relatively incom-

Research Found, Inc. v. Generisch, Inc., 504
F.2d (1518, 1568-50, 15 U.S.P.G.2d 1039, 1047-48
F.2d (121.1990) (directing district court, on Fef. F. Consider Circle of Hogon and United
State Ster on the eabbencent analysis of Fish
eth, eart direction U.S. — 111 S.Ct. 1434,
eth, eart direction U.S. — 111 S.Ct. 1434,

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we affirm the § 112 rejectiva as to those

regited in claims 1-46 and 50-51 without those autompassed by the claimed genus possess the disclosed utility. Where, as the disclosure of an invention involving a or electrical element. See Fisher, 427 P.2d at 329, 168 U.S.P.Q. at 24. In this case, we agree with the PTO that appellants' limited disclosure daes not enable one of ordinary the disclosure must adequately guide the art worker to determine, without undue here, a claimed genus represents a diverse and relatively poorly understood group of microorganisms, the required level of disclosure will be greater than, for example, "predictable" factor such is a mechanical skill to make and use the invention as zow gy,23 to teach those of ordinity skill how to make and how to use the invention as broadly as it is claimed. This means that experimentation, which species among all close every species encompassed by their claims, even in an uncredictable art. In 18 Angstadt, 537 F.26 438, 602-13, 190 U.S.P.Q. 214, 218 (CCPA 1976). However, through illustrative examples or terminoloin their specification. It is well socted that there must be sufficient diclosure, either patent applicants in art areas currently debe allowed generic claims encompassing more than the particular species disclosed patent applicants are not required to disas "unpredictable" must nover the In so doing we do not imply

which depends from claim 47, is ilmited to The Pro did not separately address these claims, nor Indicate why they should be treated in the same manger as the claims encompassing all types of cyanobacteria. Remaining dependent claim 47 recites a eric gene of claim 1, wherein the cyanobacterium is selected from among the genera the cyanobacterium Synachecyriis 6303. cyanobacterium which expresses the chim-Claim 48, Anceysis and Syntchoogstis. and us experimentation.

epasider the effect of Hogon and Its progenty on Finker, analysis of when an knowners should be allowed to "dominate the fourse patentable Inventions of others." Finker, 427 P.28 at 838, 146 U.S.P.O. at 24.

Barillus proteins, we note what appears to tion of chalms 47-48 under § 112 will not be expression of genes encoding particular be an extensive understanding in the prior art of the numerous Bacillus proteins having taxicity to various insects. The rejec-Although these claims are not limited systained.

CONCLUSION

The rejection of claims 1-48 and 50-52 urder 35 U.S.C. § 103 is reversed. The rejection of claims 1-46 and 50-51 under 35 U.S.C. § 112, first paragraph, is affirmed ard the rejection of claims 47 and 48 thereunder is reversed

AFFIRMED-IN-PART, REVERSED-IN-PART

MAYER, Circuit Judge, dissenting.

art surrounding this patent application and ss though the examiner and board did not exist. Even if I thought this opinion were more persuasive than the board's, I could take to retry the entire case on appeal." Perini America, Inc. v. Paper Converting Machine Co., 832 P.2d 581, 584, 1 R.2d 874, 877, 229 U.S.P.Q. 668, 671 (Fed. Cir. 1986). But that is precisaly what the oourt has permitted here. The PTO concucted a thorough examination of the prior concluded the claims would have been obviops. The board's decision based on the examiner's answer which comprehensively explains the rejection is persuasive and shaws how the evidence supports the legal conclusion that the claims would have been obvious. Yet, the court ignores all this and conducts its own examination, if you will, An appeal is not a second opportunity to tan Corp. v. Appliance Values Corp., 190 by a case or prosecute a patent application, and we should not allow parties to "under-U.S.P.Q.2d 1621, 1624 (Fed.Ch.,1987); Ea-

more than objective enablement. In re florred ed. 439 P.24 220, 223, 159 U.S.P.O. SV, 369 (CCPA 1913). Now such a teaching is set forth, ellipse by the use of illustrative enamples of broad terminology, is trelevant. Id. 13, The first paragraph of § 112 requires nothing

error to apply 16% (COLA) to hourly rates of attorneys whose time was dalmed at \$75 Claims Court erred in applying 18% cost of living adjustment (COLA) to paralegal fees aration of equitable adjustment claim; (2) not a "civil action" within meaning of the BAIA, and thus contractor was not entitled to recover consultant fees incurred in prepthat: (1) prosecution of equitable adjustment claim before contracting officer was application in part and denied it in part. Contractor sought reconsideration. The notion, and held that contractor was entitled to recover additional amount representing consultant fees and expenses. Government appealed. The Court of Appeals, Bennett, Senior Circuit Judge, held Chalms Court, 22 Ct.Ct. 247, granted the nald W. Gibson, J., 21 CLCL. 683, granted original hearing, the Calms Court, Regi-Access to Justice Act (EAJA) after settlement of equitable adjustment claim. awarded under the EALA; and (3) an hour.

1, United States 47(12)

Access to Justice Art (EAJA), and thus contractor was not entitled to recover fees incurred by contract claim consultant for preparation of equitable adjustment claim. clain before contracting officer was not "chill action" within meaning of the Equal Prosecution of equitable adjustment

See publication Words and Phrases it other judicial constructions and 28 U.S.C.A. § 2412.

2. United States e=147(6)

Equal Access to Justice Act (EAJA) is a waiver of sovereign Immunity which must be strictly construed. 28 U.S.C.A.

S, United States 4-147(4)

(EAJA), court may adjust statutory cap governing rate of attorney fees upward to account for an increase in cost of living. fees under the Equal Access to Justice Act In formulating an award of attorney 28 U.S.C.A. § 2412(d)(2)(A)(d).

Construction contractor sought ettor-ney fees and expenses under the Equal

LEVERNIER CONST., INC. v. U.S. CLE and Pas AN (B. d. Cle. 1991) unsisaliable. I would affirm on that basis. record we are sound by the PTO's Interpretation of the evidence because It is not clearly erroneous and its conclusion is clearly erroneque. In re Woodruff, 919 P.2d 1675, 1577, 18 U.S.P.Q.2d 1934, 1936 Anderson n. City of Bessenter City, 470 U.S. 554, 574, 105 S.C., 1604, 1511-12, 84 L.Edad 518 (1985). The more denomquirtment that they be respected unless (Ped.Cir.1990); In re Kulling, 897 R.2d 1149, 1149, 14 U.S.P.Q.2d 1056, 1067 (Fed. Gr.1990). There may be more than one way to took at the prior and but on this does not give the court license to decide the factual matters afresh and ignore the reinstitut of obviousness as a question of law tlons of fact. Grahom u John Deere Co., 363 U.S. I, 17, 86 S.Ct. 684, 693-94, 16 L.Ed.1d 546, 148 U.S.P.Q. 459, 467 (1968); Jurgens v. Rekay, 927 F.2d 1652, 1660, 18 "["]kere there are two parmissible views of the evidence, the factfinder's choice between them cannot be clearly erroneous." and what the prior art teaches are all ques-U.S.P.Q.2d 1081, 1087 (Fed.Cir.1991). And not join it because it misparceires the role the similarity between the prior art and the claims, the level of ordinary skill in the art, The scope and content of the prior art.



LEVERNIER CONSTRUCTION, INC. Plaintiff-Appellet. The UNITED STATES, Defendant-No. 81-5064 Appellant

United States Court of Appeals, Paderal Circuit. Oct. 22, 1981